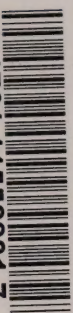


3 1761 11552831 7

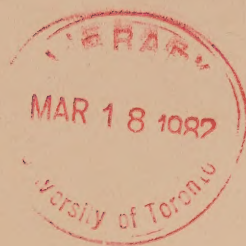




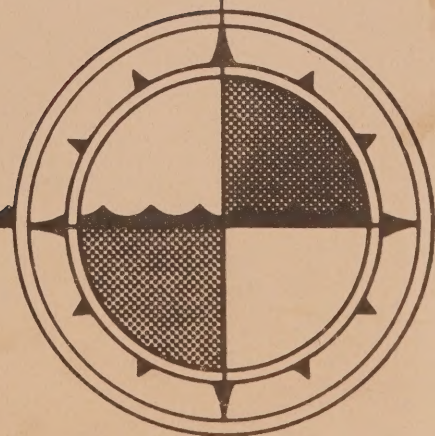
Digitized by the Internet Archive
in 2022 with funding from
University of Toronto

<https://archive.org/details/31761115528317>

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P
27 July - 13 September 1979
VOLUME 102



INSTITUTE OF OCEAN SCIENCES
Sidney, B.C.



For additional copies or further information please write to:

Department of Fisheries and Oceans

Institute of Ocean Sciences

P.O. Box 6000

Sidney, B.C. CANADA

V8L 4B2

CAI
EP321
- 81R16

Pacific Marine Science Report 81-16

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P

27 July - 13 September 1979

VOLUME 102

ABSTRACT

Physical, chemical, and biological oceanographic data were collected from the waters off of Ocean Station P, 38° 00' N, 124° 30' W, during the period 27 July - 13 September 1979. The data are presented in this volume in a series of tables. The tables are arranged in a logical sequence, with the physical data first, followed by the chemical data, and then the biological data. The tables are arranged in a logical sequence, with the physical data first, followed by the chemical data, and then the biological data. The tables are arranged in a logical sequence, with the physical data first, followed by the chemical data, and then the biological data.

Institute of Ocean Sciences

Sidney, B.C.

1981

TABLE OF CONTENTS

ABSTRACT.....	1
TABLE OF CONTENTS.....	1
INTRODUCTION.....	2
PLACES OF OBSERVATIONS.....	2
OBSERVATIONAL PROCEDURES.....	2
COMPUTATIONS.....	2
REFERENCES.....	2
LOG OF HYDROGRAPHIC AND STD OBSERVATIONS.....	2
WIDE DATA.....	2
RESULTS OF HYDROGRAPHIC OBSERVATIONS.....	2

ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weather ship at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

Figure 1. Chart showing Line P station positions.....	3
Figure 2. Composite plot of temperature vs depth depth for Line P stations.....	14
Figure 3. Composite plot of salinity vs depth depth for Line P stations.....	15
Figure 4. Composite plot of temperature vs depth depth at Station P.....	16
Figure 5. Composite plot of salinity vs depth depth for Station P.....	17
Figure 6. Composite plot of oxygen vs depth depth for Station P.....	18
Figure 7. Salinity differences between hydrocasts and STD.....	24
Figure 8. Temperature differences between hydrocasts and STD.....	25

TABLE OF CONTENTS

ABSTRACT.....	i
TABLE OF CONTENTS.....	iii
INTRODUCTION.....	1
PROGRAM OF OBSERVATIONS.....	2
OBSERVATIONAL PROCEDURES.....	3
COMPUTATIONS.....	4
REFERENCES.....	5
LOG OF HYDROGRAPHIC AND STD OBSERVATIONS.....	6
MILE GRID.....	8
RESULTS OF HYDROGRAPHIC OBSERVATIONS.....	13
RESULTS OF STD OBSERVATIONS.....	53
SURFACE SALINITY AND TEMPERATURE OBSERVATIONS.....	295

LIST OF FIGURES

Figure 1. Chart showing Line P station positions.....	9
Figure 2. Composite plot of temperature vs \log_{10} depth for Line P stations.....	14
Figure 3. Composite plot of salinity vs \log_{10} depth for Line P stations.....	15
Figure 4. Composite plot of temperature vs \log_{10} depth at Station P.....	16
Figure 5. Composite plot of salinity vs \log_{10} depth for Station P.....	18
Figure 6. Composite plot of oxygen vs \log_{10} depth for Station P.....	20
Figure 7. Salinity differences between hydro data and STD.....	54
Figure 8. Temperature differences between hydro data and STD.....	55

INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude $50^{\circ}00'N$, Longitude $145^{\circ}00'W$) was inaugurated in December 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959 by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at $40'$, i.e. $139^{\circ}40'W$, $141^{\circ}40'W$, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes hydrographic, continuously sampled STD and surface salinity and temperature data collected from the CCGS Quadra during the period 27 July - 13 September 1979.

All physical oceanographic data have been stored by the Marine Environmental Data Services Branch (MEDS), Department of Fisheries and Oceans, 240 Sparks Street, 7th Floor West, Ottawa, Ontario, Canada, K1A 0E6. Requests for these data should be directed to MEDS.

Biological and productivity data are published in the Manuscript Report series of the Department of Fisheries and Oceans (DFO), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to DFO.

Marine geochemical data are for the Ocean Chemistry Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B. C., Canada, V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS QUADRA, 27 July - 13 September 1979 (P-79-6)
(MEDS Ref. No. 15-79-006)

Oceanographic observations were made by Mr. P. Munro.

En Route to Station P (Line P)

STD profiles were taken at Line P stations 1 to 7 and 12.

At station 6 a hydrocast was also taken to 1400 metres for temperature and salinity.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography

- 1) Two hydrocasts to 4200 metres for temperature, salinity and oxygen.
 Four hydrocasts to 1500 metres for temperature, salinity and oxygen.
 Five hydrocasts to 1500 metres for temperature and POC (Particulate Organic Carbon).
- 2) Thirty-six STD profiles were taken at Station P.
 Fifteen STD profiles were taken at MILE GRID positions.
- 3) Daily salinity samples were taken from the seawater loop at 0000 hours, GMT.
- 4) BT's were taken every three hours to coincide with meteorological observations and encoded and transmitted according to the IGOSS format. XBT's were taken on days of rough weather.

Marine Geochemistry

Samples for air CO₂, PCO₂, POC, alkalinity, nutrients and tritium obtained during this cruise are for the Ocean Chemistry Division and are not included in this data report.

Biological Oceanography

Samples from 150 metre vertical plankton hauls (Station P) and nutrients (Line P) obtained during this cruise are for the Pacific Biological Station and are not included in this data report.

En Route from Station P (Line P)

STD profiles were taken at Line P stations 12 and 9 to 1.

At stations 12 and 5 a hydrocast was also taken to 1400 metres for temperature and salinity.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

Observations for Other Agencies

- 1) Marine mammal observations were made by the ship's officers for Mr. M. Bigg, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, British Columbia, Canada.
- 2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiguet, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

OBSERVATIONAL PROCEDURES

Observations for salinity, oxygen and temperature from all hydrographic casts, including the surface, were obtained with Niskin water sample bottles equipped with either Richter and Wiese and/or Yoshino Keiki Co. reversing thermometers. Two protected thermometers were used on all bottles and one unprotected thermometer was used on each bottle at depths of 300 metres or greater. The accuracy of protected reversing thermometers is believed to be $\pm 0.02^{\circ}\text{C}$.

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm 0.1^{\circ}\text{C}$ accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a 'b' in this data record.

Salinity determinations were made aboard ship with either an Autolab Model 601 Mark III inductive salinometer or a Hytech Model 6220 lab salinometer. Accuracy using duplicate determinations is estimated to be $\pm 0.003^{\circ}/\text{oo}$.

Depth determination were made using the "depth difference" method described in the U.S.N. Hydrographic Office Publication No. 607 (1955). Depth estimates have an approximate accuracy of ± 5 metres for depths less than 1000 metres, and $\pm 0.5\%$ of depth for depths greater than 1000 metres.

The dissolved oxygen analyses were done in shipboard laboratory by a modified Winkler method (Carpenter, 1955).

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Elektronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm 0.1^{\circ}\text{C}$.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm 0.1^{\circ}\text{C}$ for temperature and $\pm 0.1^{\circ}/\text{oo}$ for salinity.

STD profiles were taken with a Guildline Model 8700 STD system.

COMPUTATIONS

All hydrographic data were processed with the aid of a UNIVAC 1100 computer. Reversing thermometer temperature corrections, thermometric depth calculations and accepted depth from the "depth difference" method were computed. Extraneous thermometric depths caused by thermometer malfunctions were automatically edited and replaced. A Calcomp 565 Offline Plotter was used to plot temperature-salinity and temperature-oxygen diagrams, as well as plots of temperature, salinity and dissolved oxygen vs \log_{10} depth. These plots were used to check the data for errors.

Missing hydrographic data were obtained using a weighted parabolas interpolation method (Reiniger and Ross, 1968). These data are indicated with an asterisk in this record.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from punch card and magnetic tape records.

Analog traces from the salinity-temperature-pressure instrument have been digitized using a Hewlett-Packard (HP) 9821A calculator and an HP 9864A digitizer, then replotted by an HP 9862A plotter. Digitization was continued until original and computer plotted traces were coincident.

The HP 9821A was then connected to an HP 2116 minicomputer and the digitized data transferred to 9-track tape. Using a UNIVAC 1106 computer the

data was listed and obvious spikes removed, then a correction was applied.

Temperature and salinity values were listed at standard pressures and plotted using a Houston Complot DP8S Plotter.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)
SVA (THETA)	is potential specific volume anomaly
DELTA D	is geopotential anomaly (J/kg)
POT EN	is potential energy in units of 10^8 ergs/cm ²
OXY	is the concentration of dissolved oxygen expressed in millilitres per litre
SOUND	is the velocity of sound in m/sec

Data were processed for publication by Messrs. C. de Jong, B. Minkley and J. Linguanti.

REFERENCES

- Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. and Oceanogr.* 10, 141-143.
- Collins, C.A., R.L. Tripe, D.A. Healey and J. Joergensen, 1969. The time distribution of serial oceanographic data from the Ocean Station P programme. *Fish. Res. Bd. Can. Tech. Rept. No.* 106.
- MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976 (unpublished manuscript). *Pacific Marine Science Report* 77-9
- Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. *Deep Sea Res.* 15, 185-193.
- U.S.N. Hydrographic Office, 1955. Instruction Manual for oceanographic observations. *Publ. No.* 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocasts (m)	Comments
001	1	27/07/79	2243	100		} Line P T,S,
002	2	28/07/79	0035	100		
003	3	28/07/79	0255	1150		
004	4	28/07/79	0620	1400		
005	5	28/07/79	0945	1350		
006	6	28/07/79	1600	1425		
007	6	28/07/79	1710		1400	
008	7	28/07/79	2316	1425		
009	12	30/07/79	0500	1425		
010	P	30/07/79	1715	1425		
011	P	31/07/79	1730	1425		
012	P	31/07/79	1834		4200	T,S,O ₂
013	P	01/08/79	1715	1425		
014	P	02/08/79	1717	1425		
015	P	03/09/79	1745	1425		
016	P	04/08/79	1735	1425		
017	P	05/08/79	1600	1425		
018	P	06/08/79	1715	1425		
019	P	06/08/79	1845		1500	T, POC, Ch α
020	P	07/08/79	1725	1425		
021	P	07/08/79	1945		1500	T,S,O ₂
022	P	08/08/79	1715	1425		
023	P	12/08/79	1715	1425		} MILE grid
024	E3	12/08/79	1905	300		
025	E4	12/08/79	2025	300		
026	C1	12/08/79	2205	300		
027	W4	12/08/79	2340	300		
028	W3	13/08/79	0105	300		
029	P	13/08/79	1720	1425		
030	P	13/08/79	1944		1500	T, POC
031	P	14/08/79	1730	1425		
032	P	14/08/79	1937		1500	T,S,O ₂
033	P	15/08/79	1720	1425		
034	P	16/08/79	1715	1425		
035	P	17/08/79	1600	1425		
036	P	18/08/79	1712	1425		
037	P	19/08/79	1600	1425		
038	P	20/08/79	1715	1425		
039	P	20/08/79	1930		1500	T, POC
040	P	21/08/79	1718	1425		
041	P	21/08/79	1923		1500	T,S,O ₂
042	P	22/08/79	1723	1425		} MILE grid
043	E3	22/08/79	1915	300		
044	E4	22/08/79	2035	300		
045	C1	22/08/79	2207	300		
046	W4	22/08/79	2352	300		
047	W3	23/08/79	0131	300		
048	P	23/08/79	1630	1425		
049	P	24/08/79	1614	1425		
050	P	25/08/79	1729	1425		
051	P	26/08/79	1609	1425		

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS (continued)

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocasts (m)	Comments
052	P	27/08/79	1717	1425		
053	P	27/08/79	1932		1500	T, POC
054	P	28/08/79	1715	1425		
055	P	28/08/79	1836		4200	T,S,O ₂
056	P	29/08/79	1615	1425		
057	P	30/08/79	1625	1425		
058	P	31/08/79	1735	1425		
059	P	01/09/79	1615	1425		
060	P	03/09/79	1750	1425		
061	E3	03/09/79	2053	300		} MILE grid
062	E4	03/09/79	2218	300		
063	C1	04/09/79	0125	300		
064	W4	04/09/79	0342	300		
065	W3	04/09/79	0525	300		
066	P	05/09/79	1725	1425		
067	P	06/09/79	1740	1425		
068	P	06/09/79	1925		1500	T, POC
069	P	07/09/79	1725	1425		
070	P	07/09/79	1928		500	T,
071	P	08/09/79	0602		1500	T,S,O ₂
072	P	08/09/79	1615	1425		
073	12	09/09/79	1715	1425		
074	12	09/09/79	1834		1400	T,S,
075	9	10/09/79	1445	1425		
076	8	10/09/79	2105	1425		
077	7	11/09/79	0300	1425		
078	6	11/09/79	0900	1425		
079	5	11/09/79	1510	1425		} Line P T,S,
080	5	11/09/79	1634		1400	
081	4	11/09/79	1957	1425		
082	3	11/09/79	2320	1200		
083	2	12/09/79	0205	100		
084	1	12/09/79	0437	100		

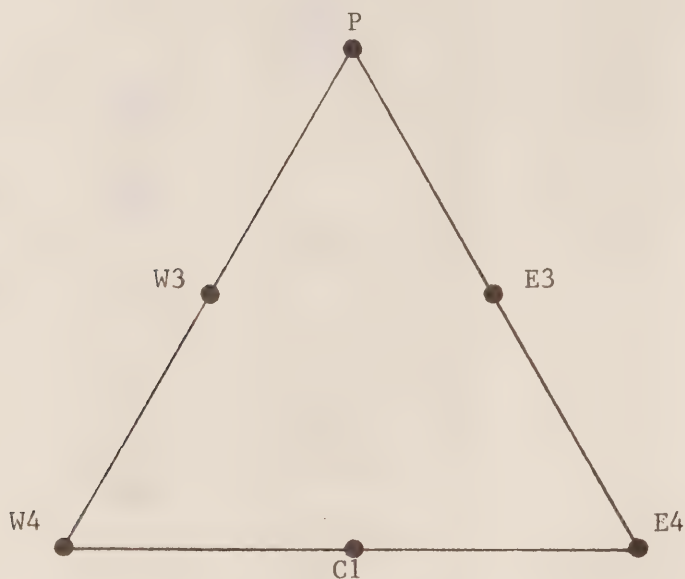
MILE GRID

(MIXED LAYER EXPERIMENT)

During the MILE experiment in the summer of 1977 a 20-mile triangular grid was initiated with STD stations to 300 metres.

During this cruise the grid survey was completed three times.

1st - STD consec. #023 - #028
2nd - STD consec. #042 - #047
3rd - STD consec. #060 - #065



Station ID and positions are as follows:

P = 50°00'N, 145°00'W
E3 = 49°52'N, 144°52'W
E4 = 49°43'N, 144°44'W
C1 = 49°42'N, 145°00'W
W4 = 49°43'N, 145°15'W
W3 = 49°52'N, 145°07'W

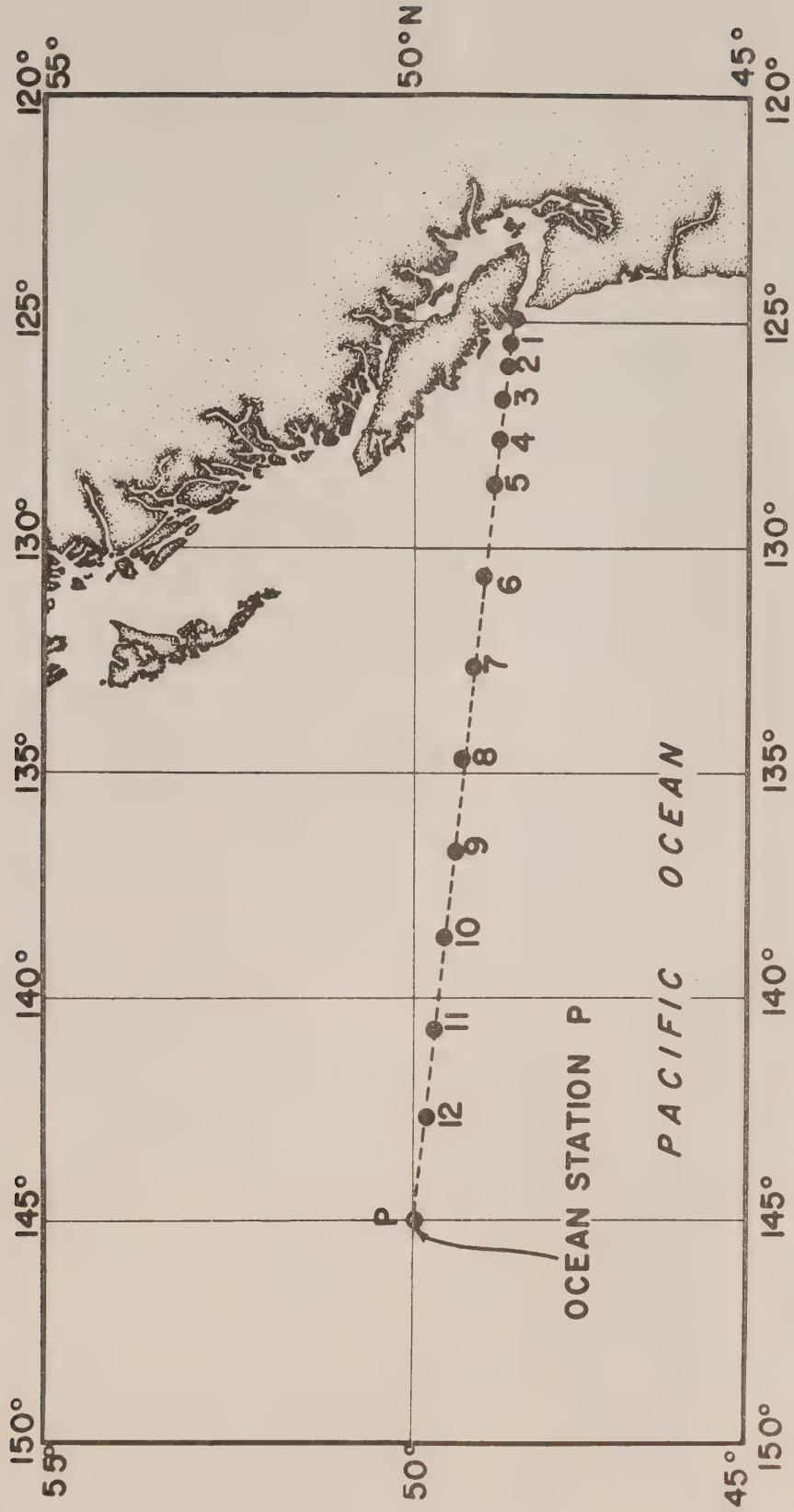


Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-79-6

(MEDS Reference No. 15-79-006)

Results of Hydrographic Observations

(P-79-6)

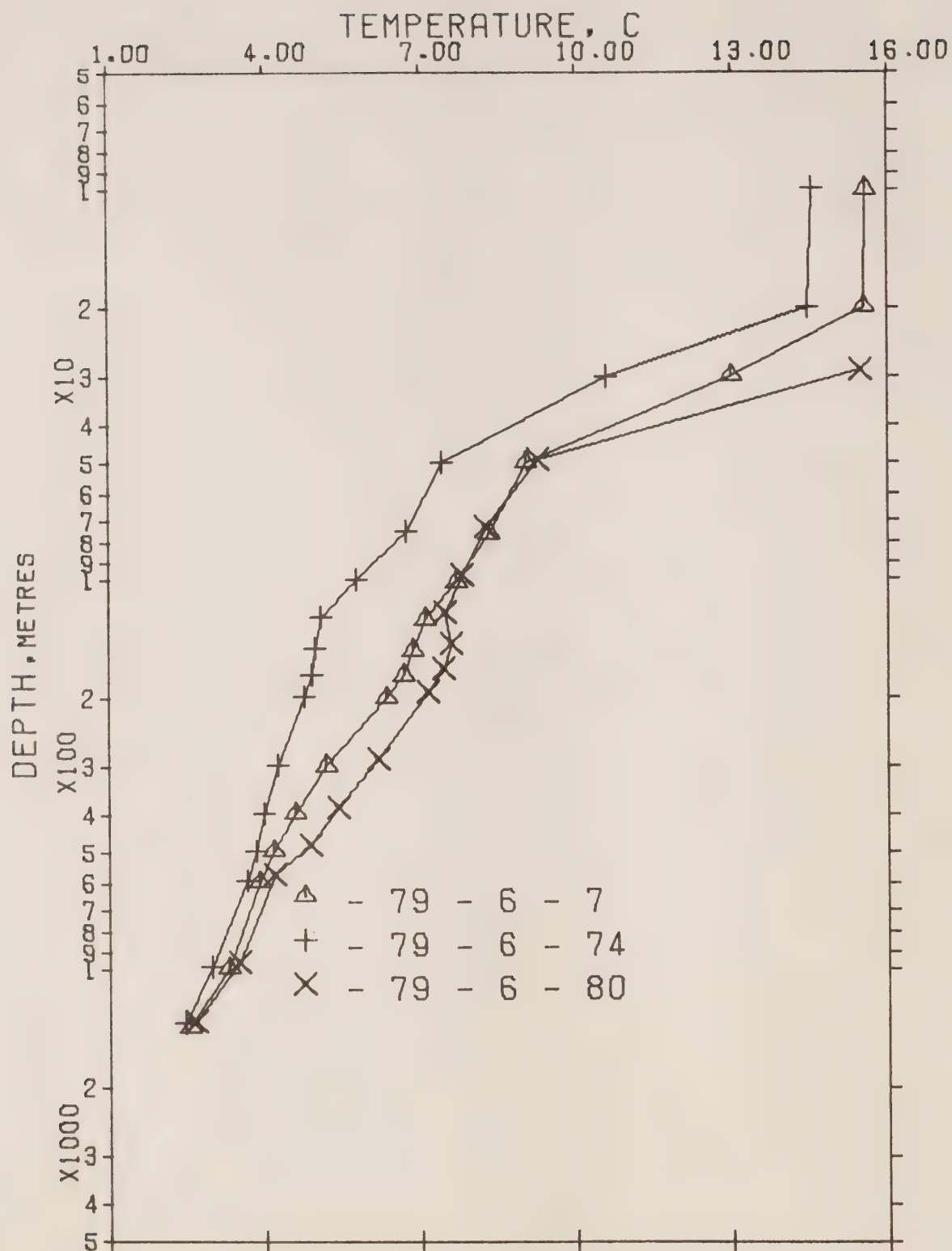


Figure 2. Composite plot of temperature vs \log_{10} depth for Line P Stations.

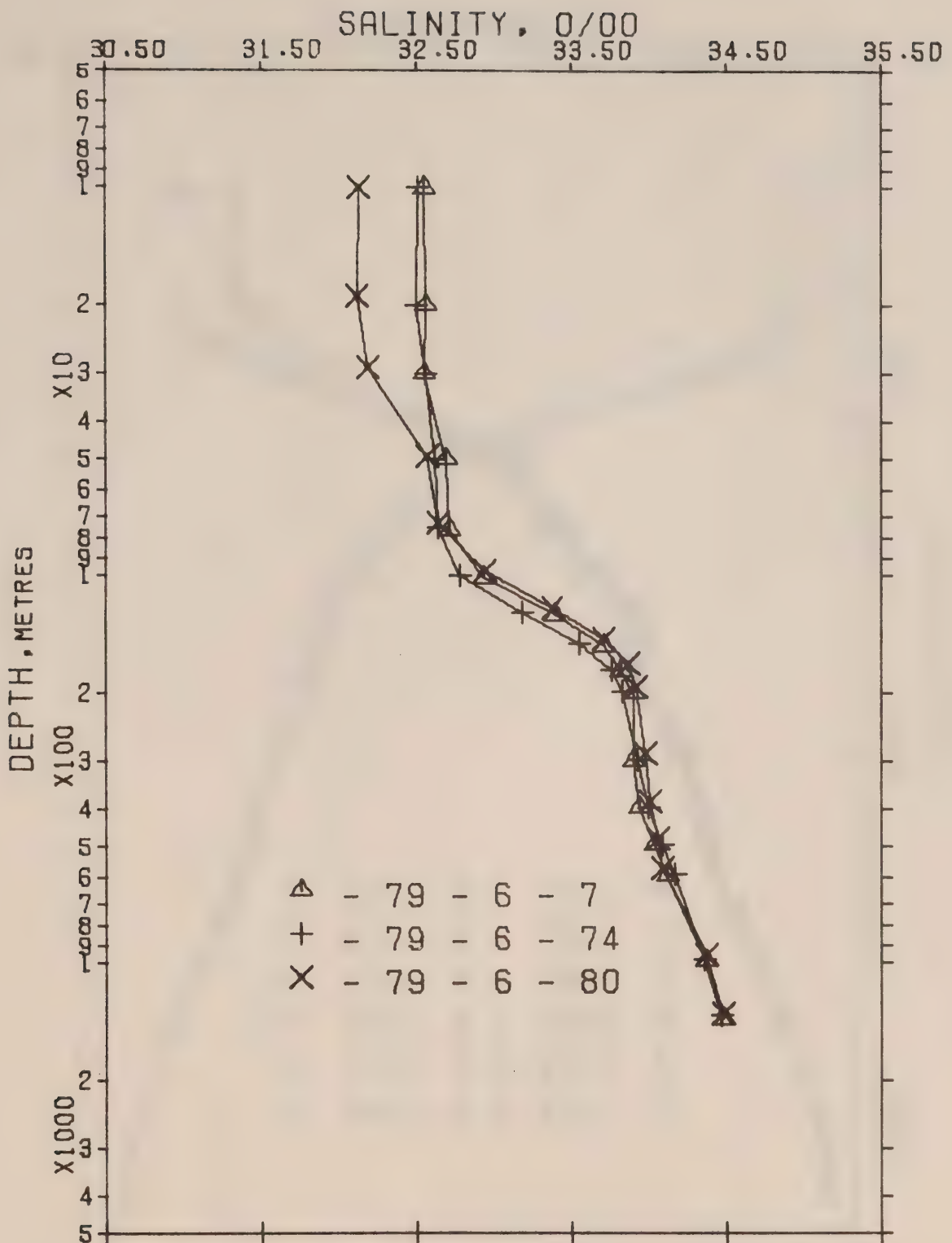


Figure 3. Composite plot of salinity vs \log_{10} depth for Line P Stations.

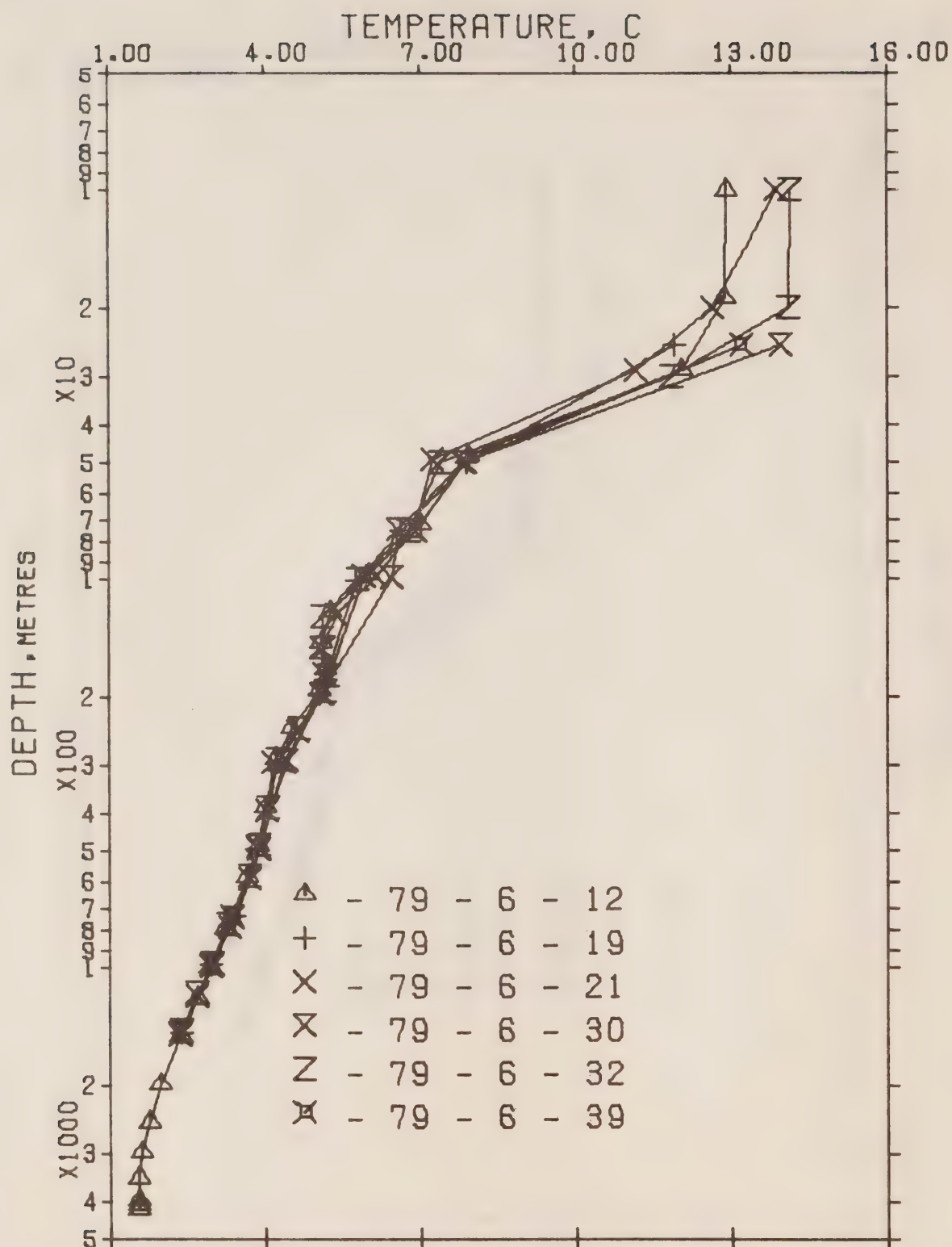


Figure 4(a). Composite plot of temperature vs \log_{10} depth for Station P.

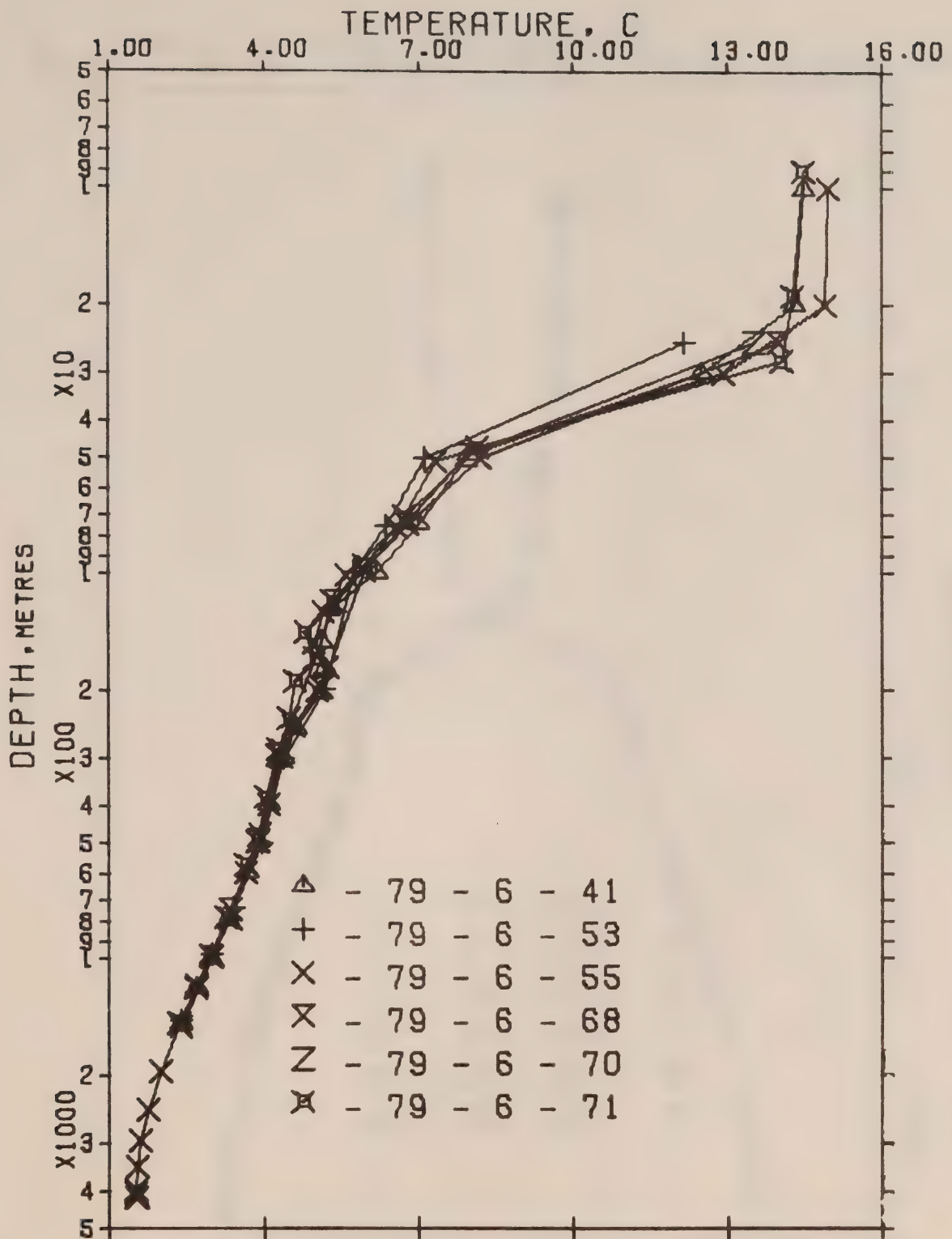


Figure 4 (b). Composite plot of temperature vs \log_{10} depth for Station P.

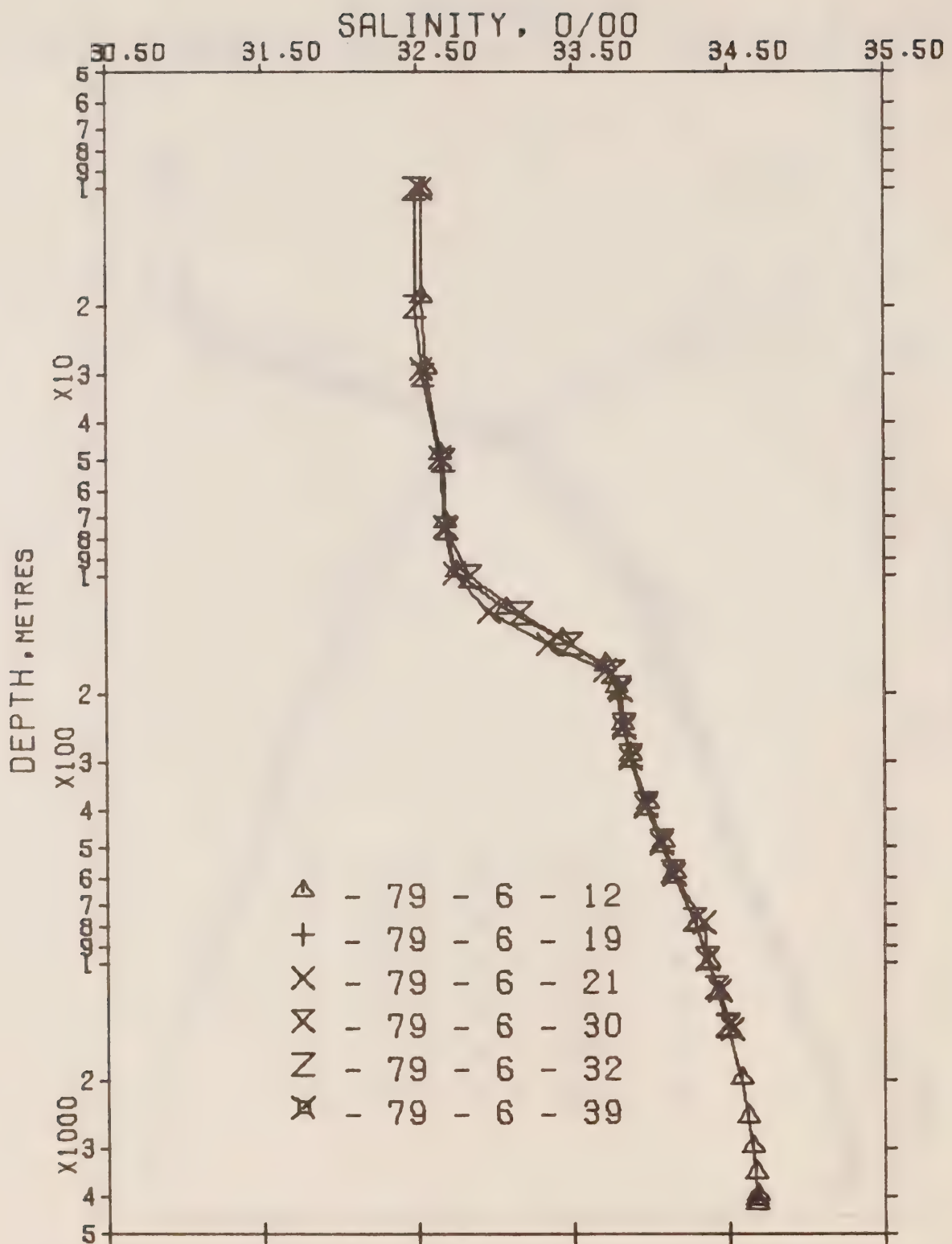


Figure 5(a). Composite plot of salinity vs \log_{10} depth for Station P.

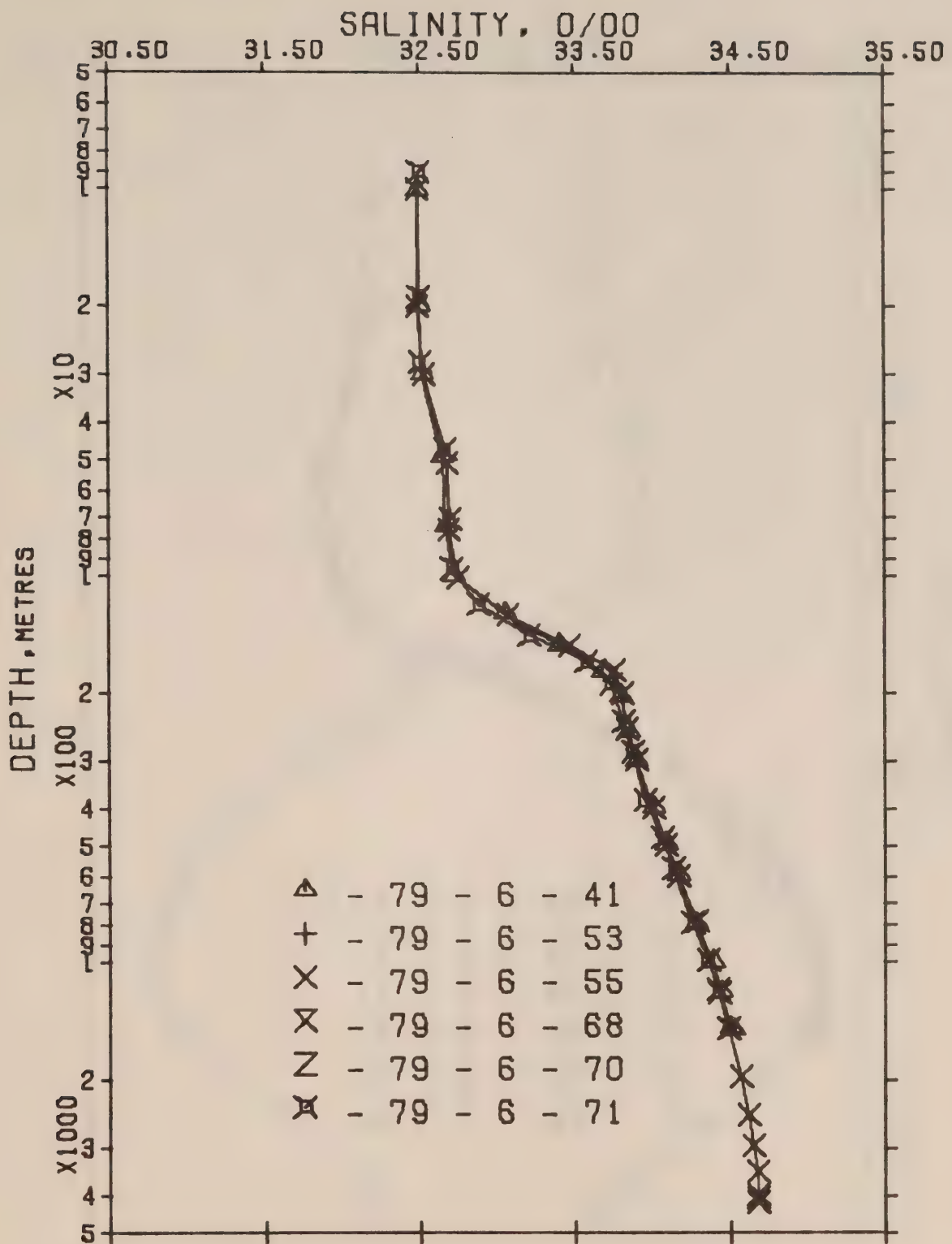


Figure 5(b). Composite plot of salinity vs \log_{10} depth for Station P.

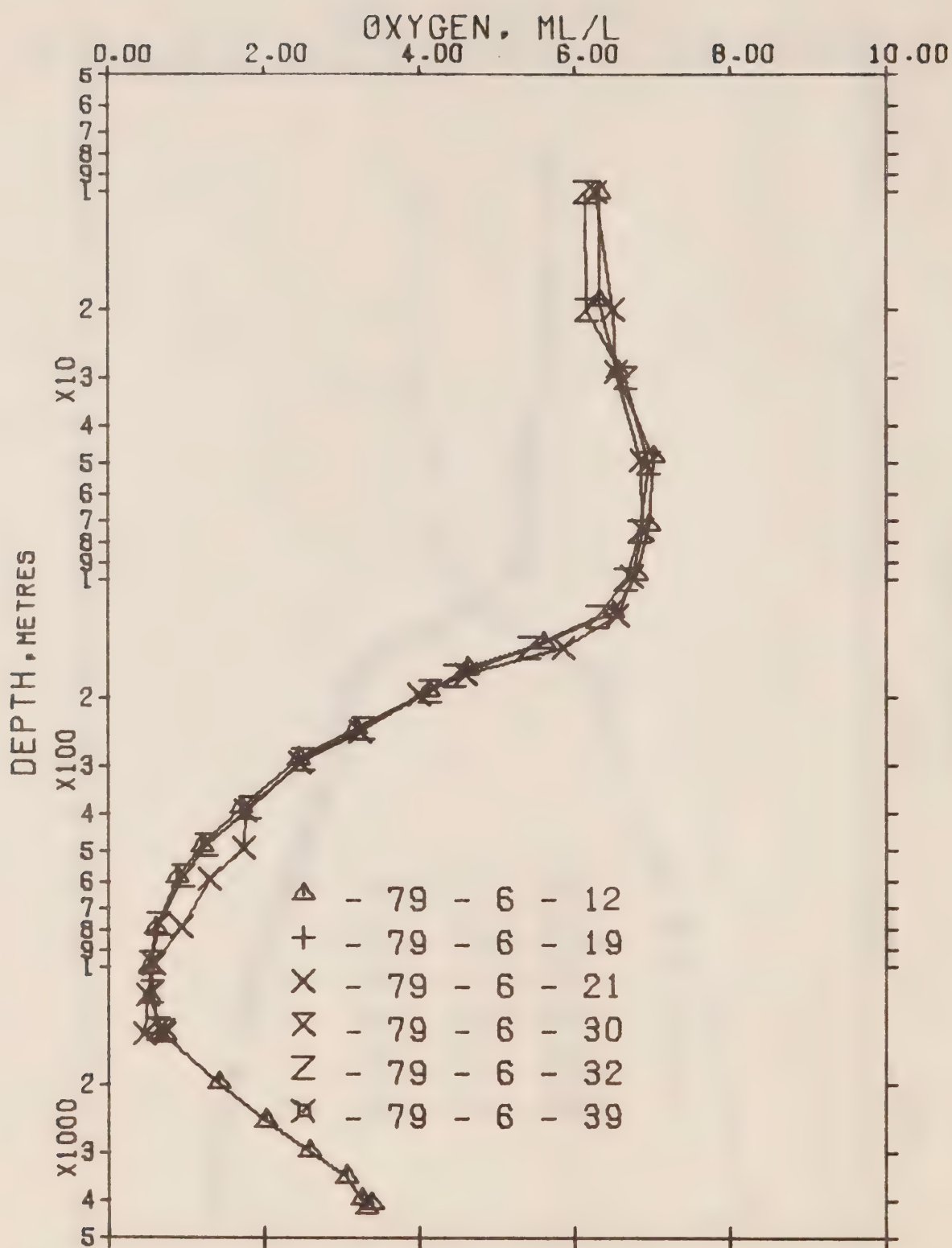


Figure 6(a). Composite plot of oxygen vs \log_{10} depth for Station P.

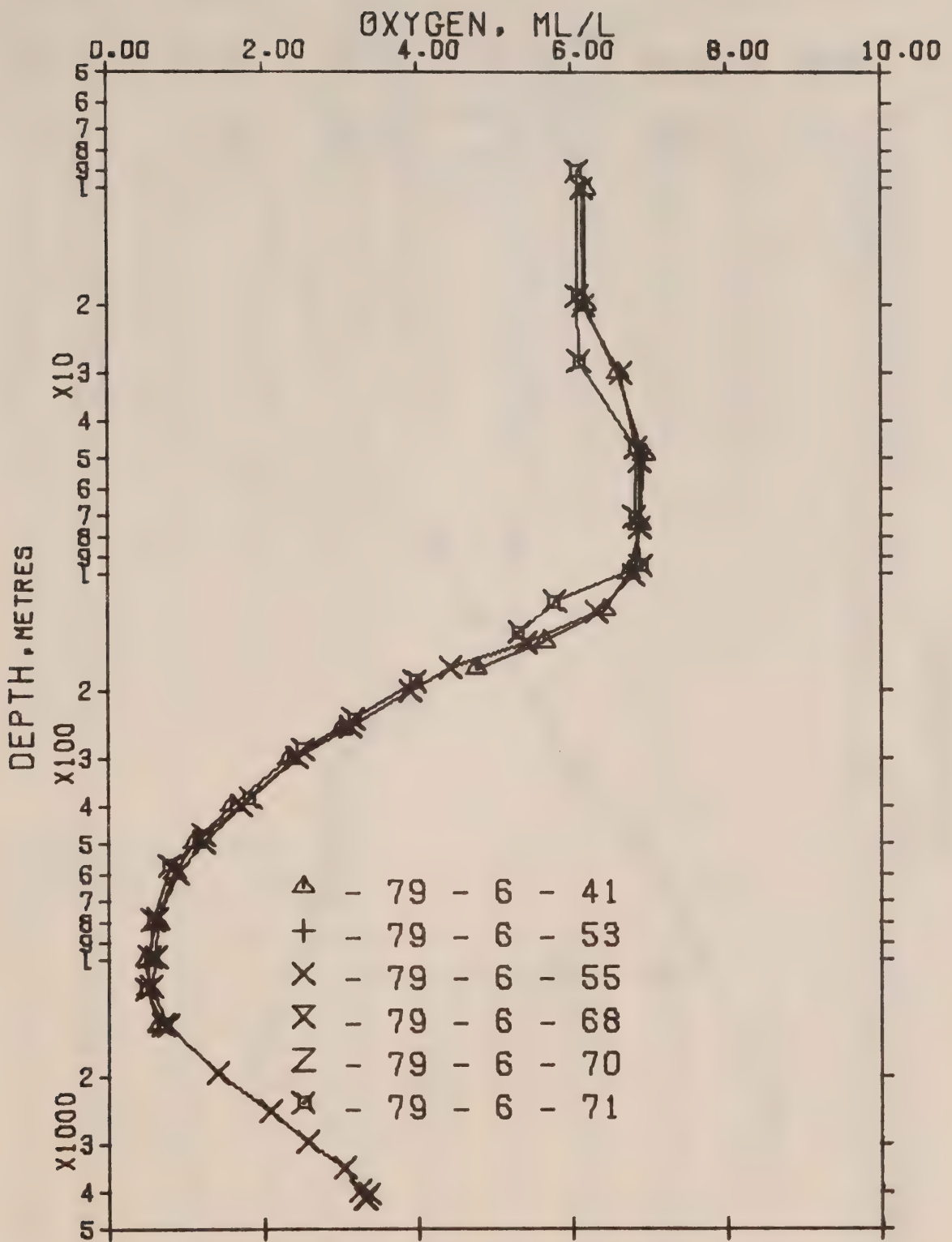
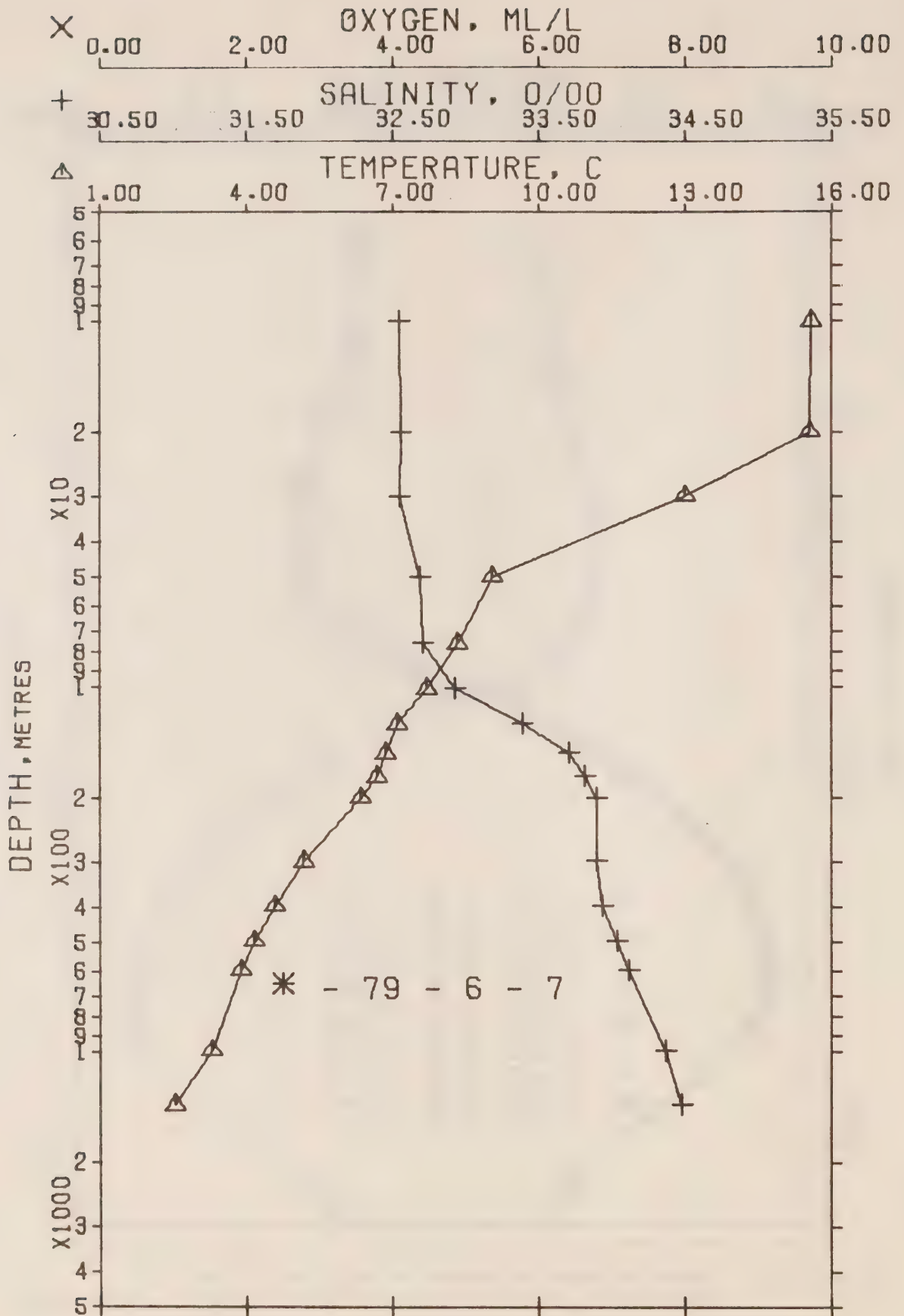


Figure 6(b). Composite plot of oxygen vs \log_{10} depth for Station P.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 7 DATE 28/ 7/79 GMT 17.2

POSITION 49- 2.0 N, 130-40.0 W

STATION 6

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	15.58	32.548	0	23.980	393.8	15.58	393.8	.00	.00		1506.
10	15.58	32.549	10	23.981	394.0	15.58	393.7	.40	.02		1506.
20	15.54	32.561	20	23.999	392.6	15.54	392.0	.80	.08		1506.
30	13.00	32.549	30	24.519	343.2	13.00	342.4	1.17	.18		1498.
50	9.04	32.687	50	25.326	266.5	9.03	265.6	1.78	.43		1485.
76	8.31	32.707	76	25.453	254.8	8.30	253.5	2.45	.86		1482.
102	7.70	32.932	101	25.718	229.9	7.69	228.3	3.06	1.41		1481.
127	7.08	33.389	126	26.163	187.9	7.07	186.0	3.59	2.02		1479.
152	6.85	33.707	151	26.444	161.6	6.84	159.3	4.03	2.65		1479.
176	6.67	33.822	175	26.558	151.1	6.65	148.4	4.40	3.27		1479.
201	6.33	33.900	200	26.664	141.2	6.31	138.3	4.77	3.98		1478.
301	5.16	33.898	299	26.807	128.3	5.14	124.7	6.11	7.40		1475.
400	4.56	33.939	397	26.907	119.4	4.53	115.2	7.34	11.78		1474.
499	4.14	34.044	495	27.035	107.8	4.10	103.0	8.46	16.93		1474.
598	3.89	34.123	593	27.123	100.0	3.85	94.6	9.49	22.67		1475.
996	3.28	34.369	987	27.378	78.0	3.21	70.2	12.99	50.87		1479.
1410	2.53	34.478	1395	27.532	63.9	2.43	55.4	15.91	86.46		1483.

OFFSHORE OCEANOGRAPHY GROUP

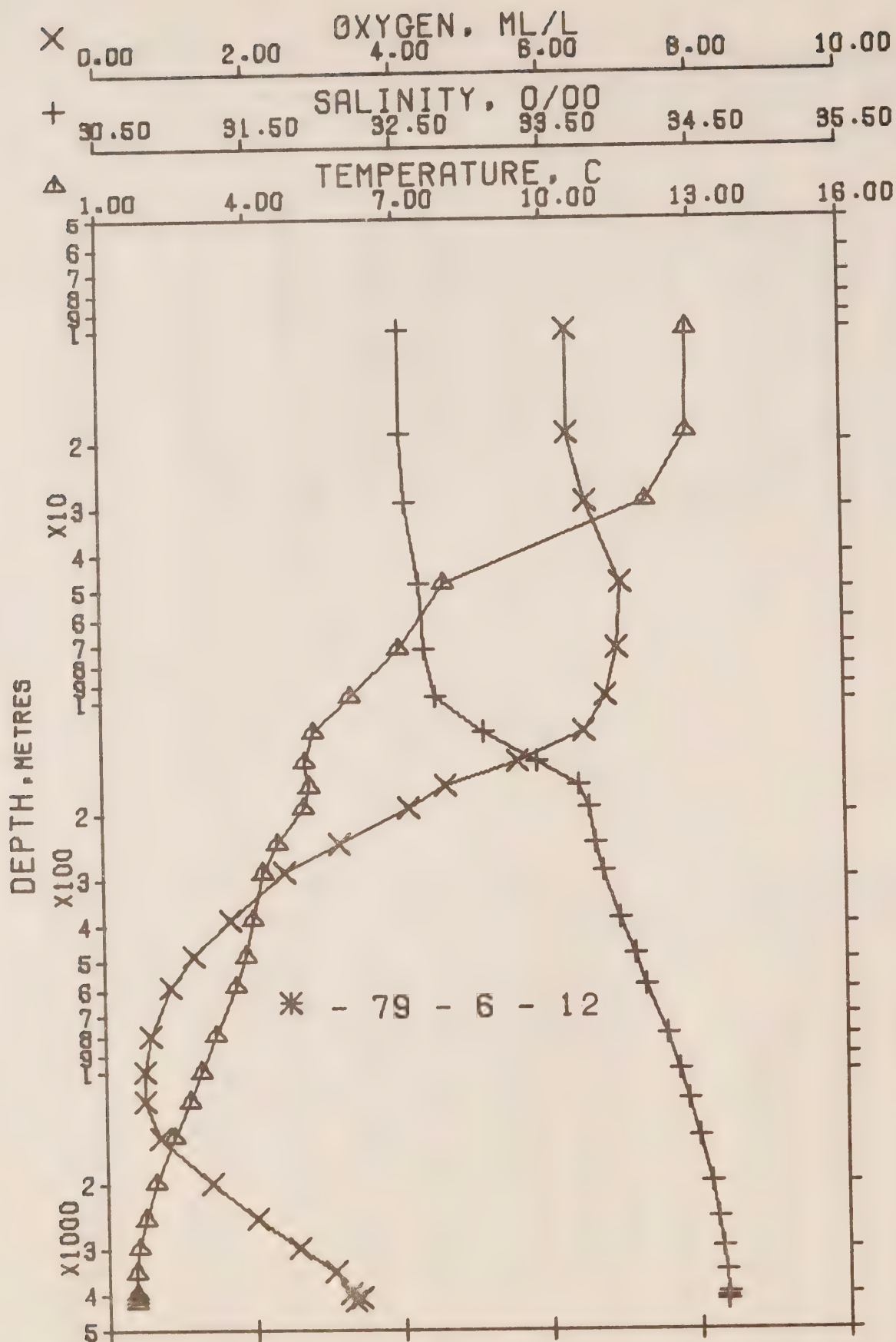
REFERENCE NO. 79- 6- 7 DATE 28/ 7/79 GMT 17.2

POSITION 49- 2.0 N, 130-40.0 W

STATION 6

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	15.58	32.548	0	23.980	393.8	15.58	393.8	.00	.00		1506.
10	15.58	32.549	10	23.981	394.0	15.58	393.7	.40	.02		1506.
20	15.54	32.561	20	23.999	392.6	15.54	392.0	.80	.08		1506.
30	13.00	32.549	30	24.519	343.2	13.00	342.4	1.17	.18		1498.
50	9.04	32.687	50	25.326	266.5	9.03	265.6	1.78	.43		1485.
75	8.34	32.706	75	25.447	255.3	8.33	254.0	2.42	.83		1482.
100	7.73	32.920	99	25.703	231.3	7.72	229.6	3.03	1.38		1481.
125	7.12	33.360	124	26.135	190.6	7.11	188.6	3.56	1.98		1479.
150	6.87	33.685	149	26.424	163.5	6.85	161.1	4.00	2.60		1479.
175	6.68	33.817	174	26.553	151.5	6.66	148.8	4.39	3.24		1479.
200	6.35	33.896	199	26.659	141.7	6.33	138.8	4.75	3.94		1478.
225	6.01	33.899	223	26.705	137.5	5.99	134.4	5.10	4.70		1477.
250	5.70	33.899	248	26.743	134.1	5.68	130.8	5.44	5.52		1476.
300	5.17	33.898	298	26.805	128.4	5.15	124.9	6.10	7.36		1475.
400	4.56	33.939	397	26.907	119.4	4.53	115.2	7.34	11.78		1474.
500	4.14	34.045	496	27.036	107.7	4.10	102.9	8.47	16.99		1474.
600	3.89	34.125	595	27.125	99.9	3.84	94.4	9.51	22.80		1475.
700	3.70	34.199	694	27.202	93.1	3.65	87.0	10.47	29.18		1476.
800	3.54	34.263	793	27.269	87.3	3.48	80.7	11.37	36.07		1477.
900	3.40	34.320	892	27.328	82.3	3.34	75.0	12.22	43.41		1478.
1000	3.27	34.370	991	27.380	77.8	3.20	70.0	13.02	51.15		1479.
1200	2.88	34.427	1188	27.462	70.4	2.79	62.2	14.50	67.76		1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 12

DATE 31/ 7/79

GMT 18.6

POSITION 50- .0 N, 145-

.0 W

STATION P

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	12.93	32.533	0	24.521	342.3	12.93	342.3	.00	.00	6.32	1498.
10	12.92	32.532	10	24.522	342.4	12.92	342.2	.34	.02	6.32	1498.
19	12.88	32.530	19	24.528	342.1	12.88	341.6	.66	.06	6.32	1498.
29	12.03	32.559	29	24.713	324.7	12.03	323.9	.99	.15	6.55	1495.
48	7.93	32.652	48	25.466	253.1	7.93	252.3	1.54	.36	7.03	1480.
72	7.00	32.678	72	25.616	239.1	6.99	238.0	2.14	.73	6.96	1477.
98	6.01	32.746	97	25.796	222.0	6.00	220.8	2.72	1.23	6.80	1474.
122	5.25	33.005	121	26.138	189.7	5.24	188.3	3.22	1.79	6.49	1471.
146	5.09	33.426	145	26.442	161.1	5.08	159.5	3.64	2.36	5.60	1472.
170	5.18	33.709	169	26.655	141.2	5.17	139.3	4.01	2.95	4.62	1473.
194	5.06	33.784	193	26.728	134.5	5.04	132.3	4.34	3.57	4.13	1473.
243	4.52	33.819	241	26.816	126.4	4.50	123.9	4.97	4.97	3.19	1471.
291	4.22	33.868	289	26.867	120.0	4.20	117.2	5.57	6.59	2.44	1471.
389	3.99	33.976	386	26.996	110.3	3.96	106.8	6.69	10.49	1.69	1472.
488	3.86	34.079	484	27.091	102.1	3.83	97.7	7.74	15.17	1.19	1473.
588	3.65	34.152	583	27.170	95.2	3.61	90.2	8.72	20.58	.88	1474.
796	3.22	34.292	789	27.323	81.7	3.16	75.6	10.56	33.46	.60	1476.
1001	2.92	34.371	991	27.413	73.9	2.85	67.0	12.14	47.97	.51	1478.
1204	2.67	34.429	1192	27.481	68.0	2.59	60.4	13.58	64.16	.52	1480.
1510	2.34	34.498	1493	27.564	60.8	2.24	52.4	15.54	91.27	.73	1484.
2014	1.96	34.581	1989	27.661	52.4	1.82	43.0	18.40	142.45	1.42	1491.
2518	1.75	34.618	2484	27.707	48.9	1.57	38.4	20.93	200.90	2.01	1498.
3021	1.61	34.654	2977	27.746	46.0	1.39	34.4	23.31	268.15	2.57	1506.
3526	1.53	34.669	3471	27.764	45.1	1.26	32.4	25.61	344.62	3.07	1515.
4037	1.53	34.679	3969	27.772	45.7	1.20	31.3	27.92	433.78	3.27	1523.
4139	1.53	34.674	4069	27.768	46.4	1.19	31.6	28.39	453.47	3.39	1525.
4232	1.53	34.674	4159	27.768	46.6	1.18	31.6	28.82	471.82	3.33*	1527.
4242	1.53	34.684	4169	27.776	45.9	1.18	30.8	28.87	473.87	3.32	1527.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 12

DATE 31/ 7/79

GMT 18.6

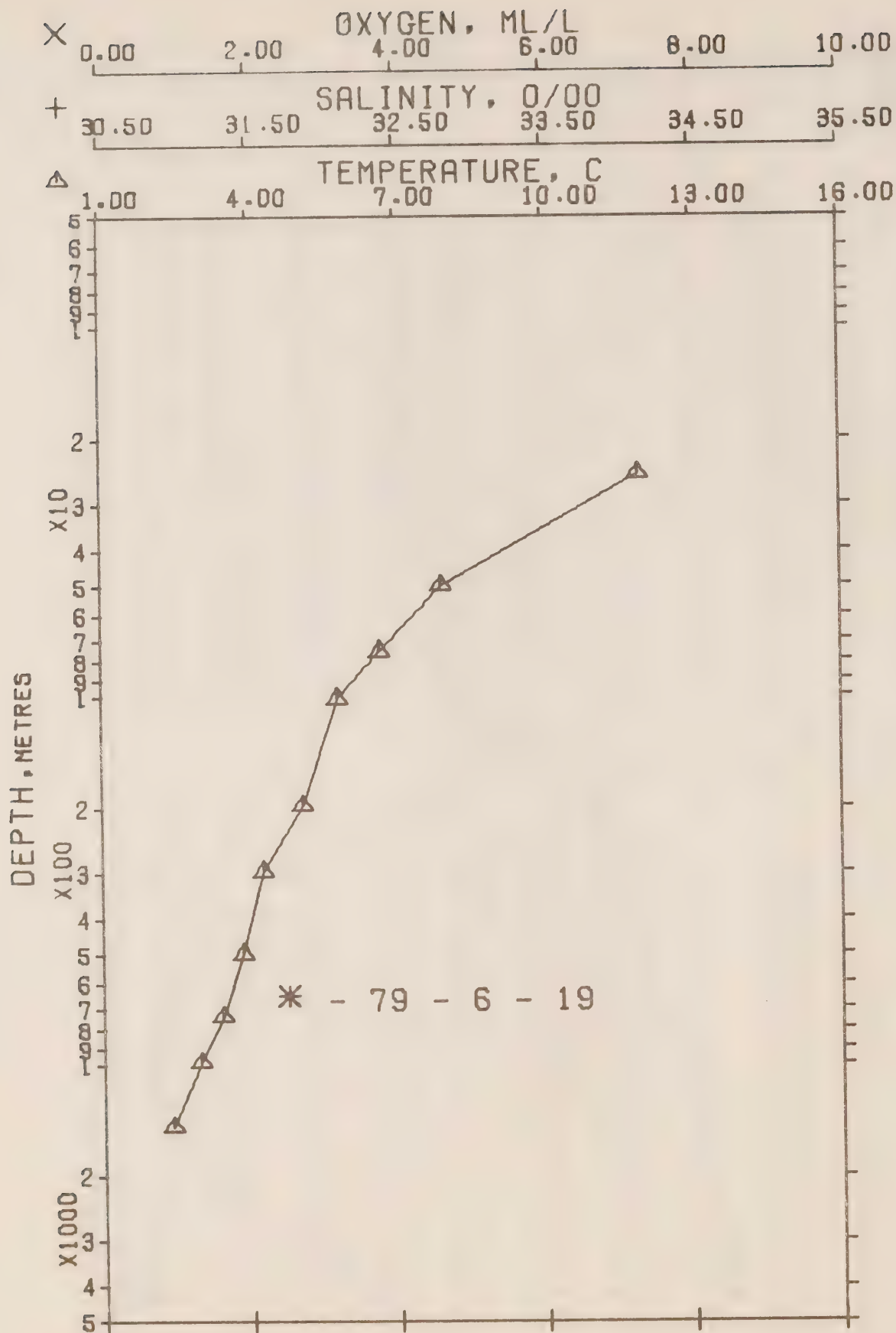
POSITION 50- .0 N, 145-

.0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	12.93	32.533	0	24.521	342.3	12.93	342.3	.00	.00	6.32	1498.
10	12.92	32.532	10	24.522	342.4	12.92	342.2	.34	.02	6.32	1498.
20	12.79	32.533	20	24.548	340.1	12.79	339.6	.69	.07	6.35	1497.
30	11.80	32.564	30	24.760	320.2	11.79	319.5	1.02	.16	6.58	1494.
50	7.85	32.654	50	25.479	251.8	7.84	251.0	1.59	.38	7.02	1480.
75	6.88	32.686	75	25.637	237.0	6.88	236.0	2.20	.77	6.94	1477.
100	5.93	32.781	99	25.834	218.4	5.92	217.2	2.77	1.29	6.77	1473.
125	5.23	33.117	124	26.182	185.5	5.22	184.1	3.28	1.86	6.36	1471.
150	5.11	33.477	149	26.480	157.6	5.09	155.9	3.71	2.46	5.42	1472.
175	5.15	33.725	174	26.671	139.8	5.14	137.8	4.07	3.07	4.52	1473.
200	4.99	33.789	199	26.740	133.5	4.97	131.2	4.42	3.72	4.00	1473.
225	4.70	33.807	223	26.786	129.2	4.69	126.8	4.74	4.43	3.51	1472.
250	4.47	33.827	248	26.827	125.4	4.45	122.8	5.06	5.20	3.07	1471.
300	4.20	33.879	298	26.898	119.0	4.17	116.1	5.67	6.91	2.37	1471.
400	3.97	33.989	397	27.008	109.3	3.95	105.7	6.81	10.98	1.63	1472.
500	3.83	34.089	496	27.101	101.2	3.80	96.7	7.86	15.79	1.15	1473.
600	3.62	34.161	595	27.180	94.3	3.58	89.2	8.84	21.27	.87	1474.
700	3.40	34.233	694	27.258	87.4	3.35	81.8	9.75	27.28	.72	1475.
800	3.21	34.294	793	27.324	81.5	3.16	75.4	10.59	33.71	.60	1476.
900	3.06	34.334	892	27.371	77.5	3.00	71.0	11.38	40.59	.55	1477.
1000	2.92	34.371	990	27.413	73.9	2.85	67.0	12.14	47.92	.51	1478.
1200	2.67	34.428	1188	27.480	68.1	2.59	60.5	13.56	63.81	.52	1480.
1500	2.35	34.496	1484	27.562	61.0	2.25	52.6	15.49	90.38	.72	1484.
2000	1.97	34.579	1976	27.659	52.6	1.83	43.2	18.33	140.99	1.40	1491.
2500	1.76	34.617	2467	27.706	49.0	1.58	38.6	20.85	198.69	1.99	1498.
3000	1.62	34.653	2957	27.745	46.1	1.39	34.6	23.22	265.20	2.55	1506.
3500	1.53	34.668	3445	27.763	45.2	1.26	32.5	25.49	340.38	3.04	1514.
4000	1.53	34.678	3933	27.772	45.7	1.21	31.4	27.75	426.90	3.25	1523.
4100	1.53	34.676	4031	27.770	46.1	1.19	31.5	28.21	445.82	3.34	1525.
4200	1.53	34.674	4128	27.768	46.5	1.18	31.6	28.67	465.44	3.35	1526.

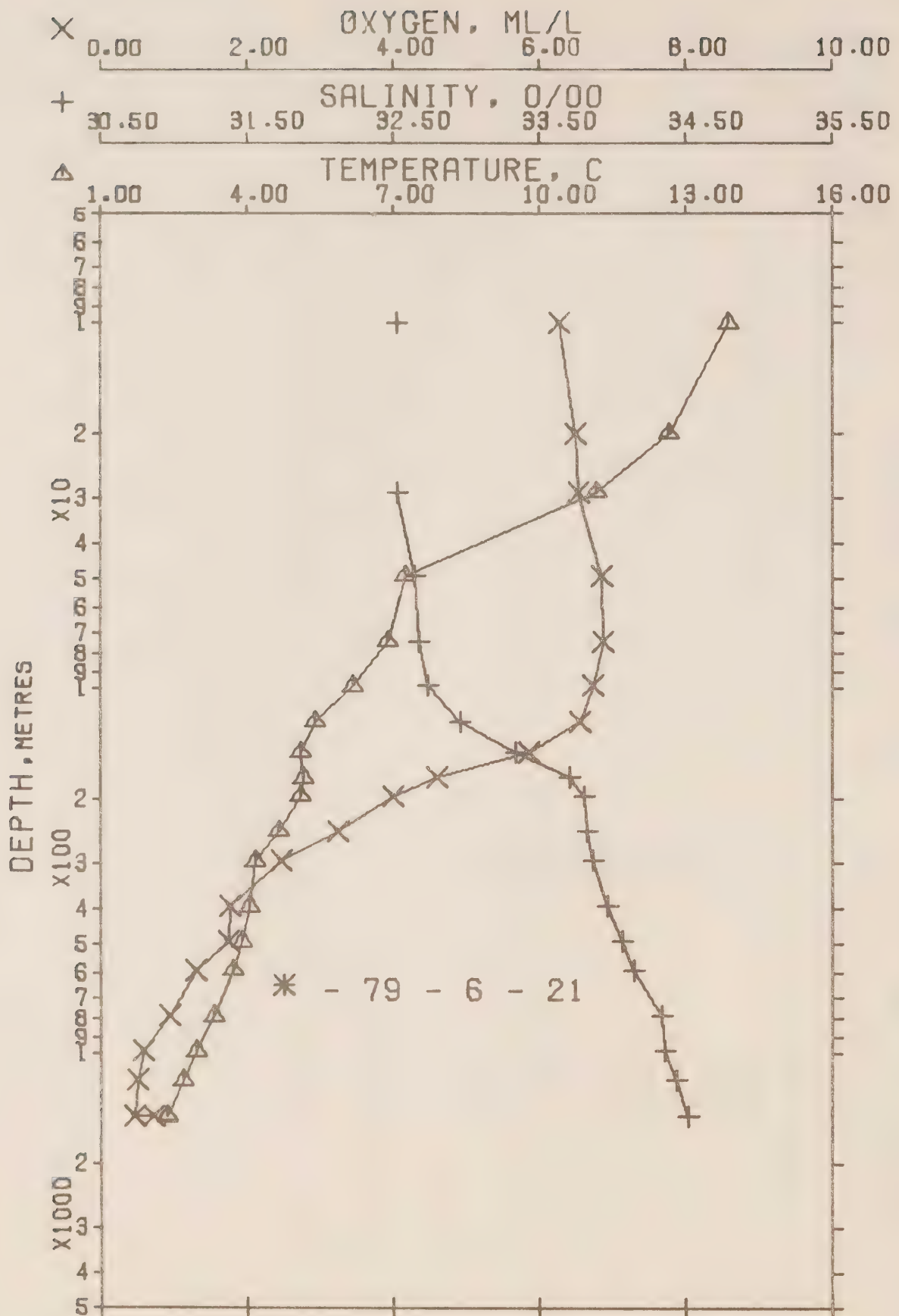


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 6- 19
 POSITION 50- .0 N, 145-
 HYDROGRAPHIC CAST DATA

DATE 6/ 4/79 GMT 18.8
 .0 W STATION P

OBSERVED DATA

TEMP	DEPTH
13.84	0
11.93	25
7.91	50
6.65	75
5.77	101
5.04	197
4.24	297
3.81	497
3.39	733
2.94	976
2.33	1467



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 21

DATE 7/ 8/79

GMT 19.8

POSITION 50- .0 N, 145-

.0 W

STATION P

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.40	32.531	0	24.221	370.9	14.40	370.8	.00	.00	6.28	1502.
10	13.87	32.531	10	24.301	360.6	13.87	360.4	.37	.02	6.27	1501.
20	12.64	32.533 *	20	24.577	337.4	12.64	336.9	.72	.07	6.49	1497.
29	11.16	32.534	29	24.852	311.3	11.16	310.7	1.01	.15	6.55	1492.
49	7.25	32.647	49	25.557	244.3	7.25	243.6	1.57	.37	6.86	1478.
74	6.88	32.683	74	25.635	237.2	6.87	236.1	2.18	.75	6.86	1477.
99	6.16	32.742	98	25.775	224.1	6.15	222.9	2.74	1.24	6.74	1474.
124	5.39	32.963	123	26.042	198.9	5.38	197.5	3.27	1.85	6.56	1472.
150	5.08	33.342	149	26.376	167.3	5.07	165.7	3.75	2.51	5.85	1472.
176	5.15	33.713	175	26.662	140.7	5.14	138.6	4.15	3.18	4.59	1473.
198	5.09	33.812	197	26.747	132.8	5.07	130.5	4.45	3.75	4.01	1473.
248	4.64	33.830	246	26.812	127.0	4.62	124.4	5.09	5.21	3.23	1472.
298	4.15	33.869	296	26.895	119.2	4.13	116.4	5.71	6.93	2.46	1471.
397	4.02	33.965	394	26.984	111.5	3.99	107.9	6.85	10.98	1.75	1472.
496	3.88	34.074	492	27.085	102.7	3.84	98.3	7.91	15.79	1.74	1473.
595	3.71	34.150	590	27.162	96.0	3.67	90.9	8.90	21.28	1.29	1474.
793	3.30	34.343+	786	27.356	78.7	3.24	72.5	10.61	33.37	.94	1476.
993	2.95	34.364	983	27.405	74.7	2.88	67.7	12.14	47.26	.57	1478.
1194	2.69	34.440	1182	27.488	67.4	2.61	59.7	13.57	63.16	.50	1480.
1493	2.36	34.523	1477	27.583	59.1	2.26	50.7	15.46	88.94	.46	1484.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 21

DATE 7/ 8/79

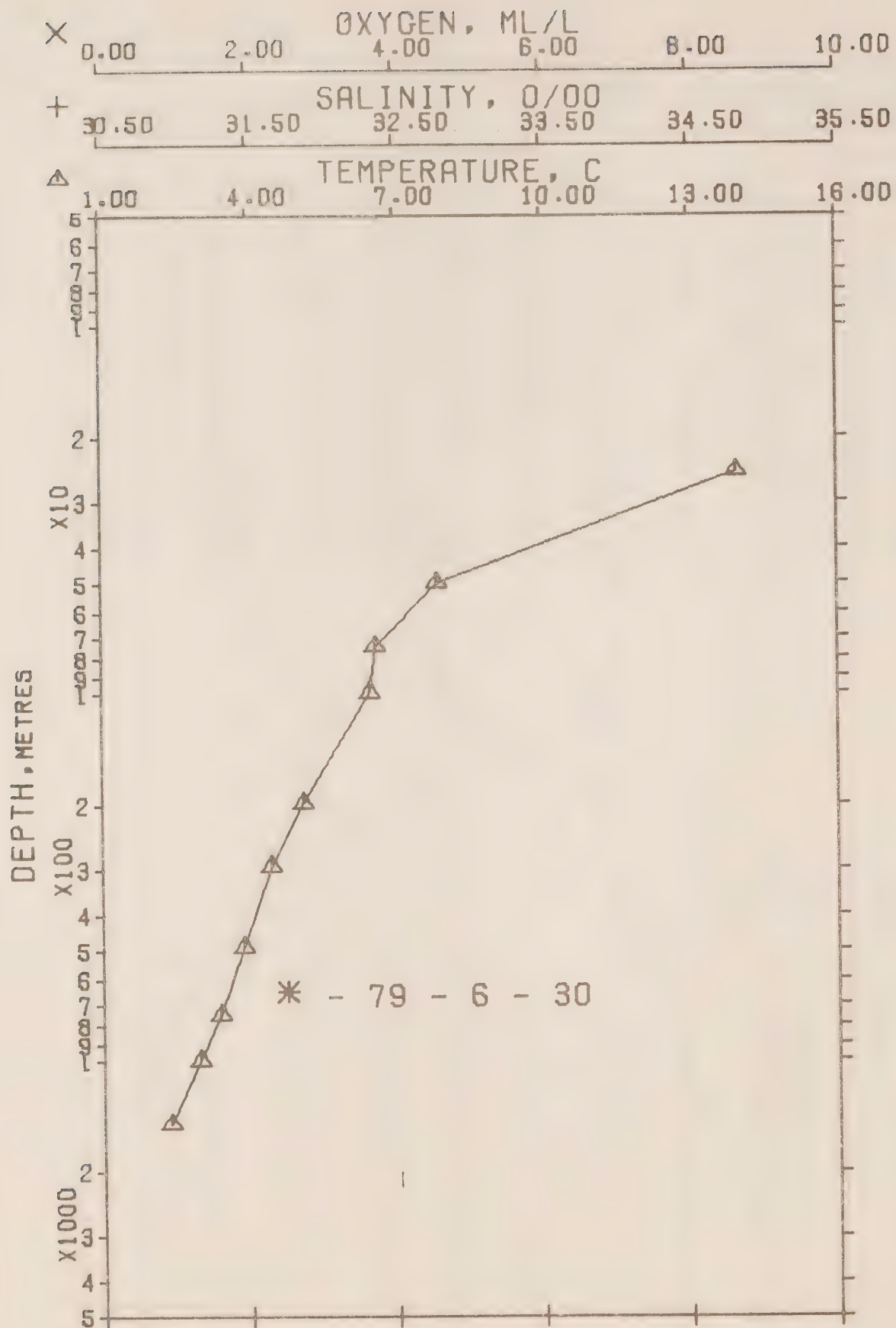
GMT 19.8

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.40	32.531	0	24.221	370.9	14.40	370.8	.00	.00	6.28	1502.
10	13.87	32.531	10	24.331	360.6	13.87	360.4	.37	.02	6.27	1501.
20	12.64	32.533	20	24.577	337.4	12.64	336.9	.72	.07	6.49	1497.
30	10.95	32.540	30	24.895	307.3	10.94	306.6	1.04	.15	6.57	1491.
50	7.24	32.648	50	25.560	244.1	7.23	243.3	1.59	.38	6.86	1478.
75	6.86	32.685	75	25.639	236.8	6.85	235.8	2.19	.76	6.86	1477.
100	6.11	32.756	99	25.791	222.5	6.10	221.3	2.77	1.28	6.72	1474.
125	5.37	32.983	124	26.059	197.3	5.36	195.9	3.29	1.88	6.52	1472.
150	5.08	33.342	149	26.376	167.3	5.07	165.7	3.75	2.51	5.85	1472.
175	5.15	33.698	174	26.650	141.8	5.13	139.7	4.13	3.15	4.64	1473.
200	5.07	33.813	199	26.749	132.6	5.06	130.3	4.47	3.80	3.96	1473.
225	4.83	33.822	223	26.784	129.5	4.82	127.0	4.80	4.51	3.57	1472.
250	4.62	33.832	248	26.816	125.6	4.60	124.0	5.12	5.28	3.20	1472.
300	4.15	33.871	298	26.897	119.1	4.13	116.3	5.73	7.00	2.45	1471.
400	4.02	33.969	397	26.988	111.2	3.99	107.6	6.88	11.11	1.75	1472.
500	3.87	34.077	496	27.088	102.4	3.84	97.9	7.95	16.00	1.72	1473.
600	3.70	34.156	595	27.168	95.5	3.66	90.3	8.94	21.57	1.28	1474.
700	3.48	34.259	694	27.272	85.2	3.43	80.5	9.85	27.58	1.09	1475.
800	3.29	34.344	793	27.357	78.6	3.23	72.3	10.67	33.81	.93	1476.
900	3.10	34.355	892	27.383	76.4	3.04	69.8	11.44	40.52	.73	1477.
1000	2.94	34.367	990	27.408	74.4	2.87	67.4	12.20	47.83	.57	1478.
1200	2.66	34.442	1188	27.490	67.2	2.60	59.5	13.61	63.65	.50	1480.

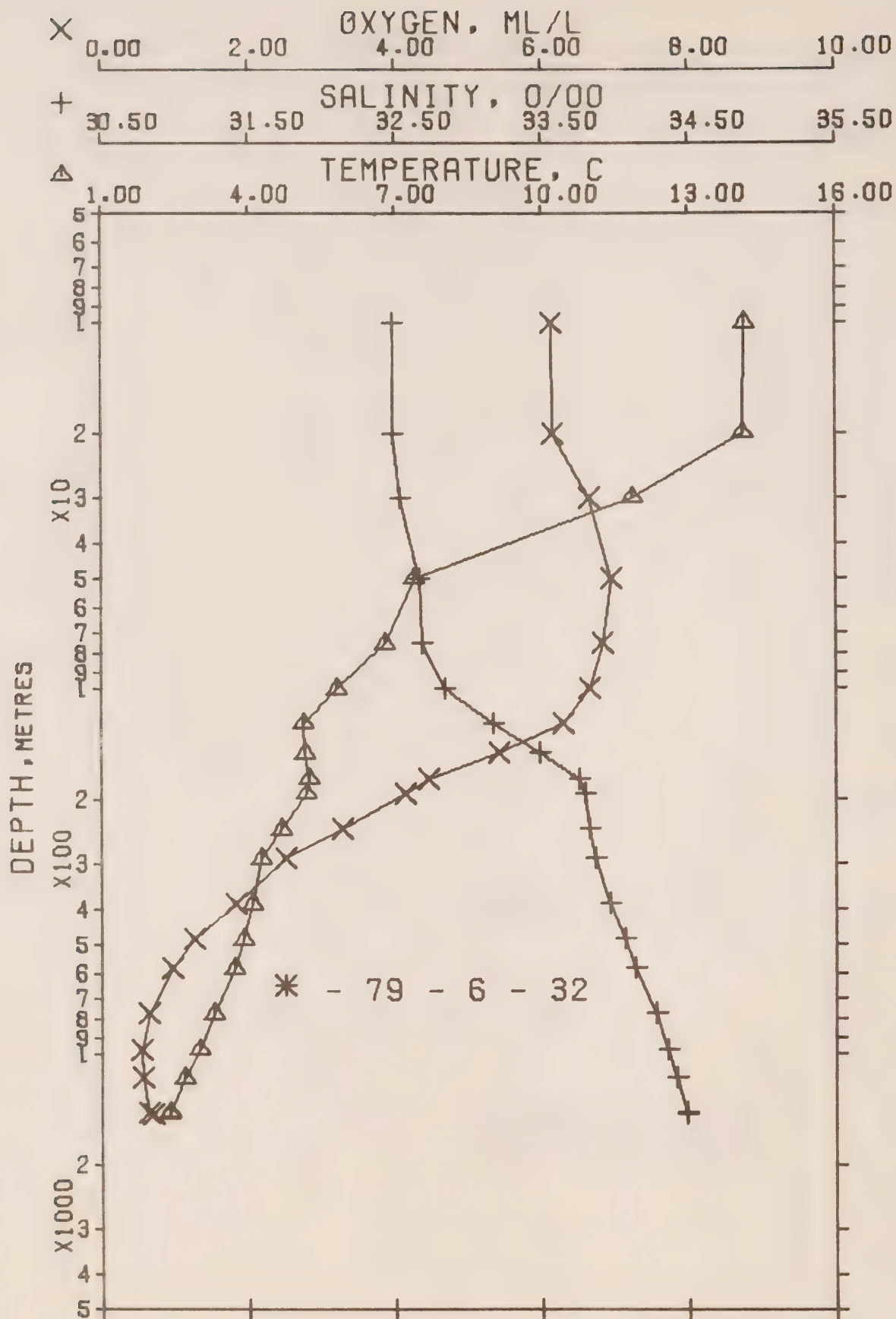


OFF-SHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 6- 50
 POSITION 50- .0 N, 145-
 HYDROGRAPHIC CAST DATA

DATE 13/ 8/79 GMT 19.7
 .0 W STATION P

OBSERVED DATA

TEMP	DEPTH
14.12	0
13.97	25
7.84	50
6.59	74
6.47	99
5.07	198
4.42	294
3.86	487
3.38	744
2.94	990
2.35	1482



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 6- 32
POSITION 50- .0 N, 145- .0 W
HYDROGRAPHIC CAST DATA

DATE 14/ 8/79

GMT 19.6

STATION P

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.16	32.489	0	24.239	369.2	14.16	369.2	.00	.00	6.17	1502.
10	14.15	32.489	10	24.241	369.2	14.15	368.9	.37	.02	6.15	1502.
20	14.12	32.490	20	24.248	368.8	14.12	368.2	.75	.08	6.16	1502.
30	11.87	32.543	30	24.730	323.0	11.87	322.3	1.09	.17	6.65	1494.
50	7.38	32.666	50	25.554	244.6	7.38	243.9	1.66	.40	6.95	1478.
75	6.80	32.686	75	25.643	236.0	6.79	234.9	2.26	.78	6.84	1476.
101	5.80	32.839	100	25.895	212.6	5.79	211.4	2.83	1.29	6.66	1473.
125	5.12	33.168	124	26.234	180.5	5.11	179.2	3.31	1.83	6.29	1471.
151	5.14	33.467	150	26.484	157.2	5.13	155.5	3.75	2.45	5.43	1472.
177	5.23	33.758	176	26.688	133.2	5.22	136.1	4.13	3.10	4.45	1473.
194	5.16	33.795	193	26.725	134.8	5.14	132.6	4.37	3.54	4.15	1473.
244	4.66	33.829	242	26.809	127.2	4.64	124.6	5.01	4.98	3.28	1472.
293	4.25	33.866	291	26.862	120.5	4.23	117.7	5.62	6.05	2.49	1471.
390	4.05	33.974	387	26.983	111.1	4.02	107.5	6.74	10.55	1.81	1472.
488	3.88	34.074	484	27.085	102.7	3.84	98.3	7.79	15.22	1.27	1473.
586	3.71	34.143	581	27.157	96.5	3.67	91.4	8.76	20.56	.96	1474.
780	3.29	34.279	773	27.305	83.3	3.24	77.2	10.50	32.62	.63	1476.
975	2.97	34.361	966	27.400	75.0	2.90	68.1	12.04	46.39	.53	1478.
1171	2.69	34.422	1159	27.474	68.6	2.61	61.1	13.44	61.69	.56	1480.
1456	2.39	34.489	1440	27.553	61.8	2.29	53.5	15.30	86.55	.64	1483.
1465	2.37	34.490	1449	27.555	61.5	2.27	53.3	15.36	87.39	.70	1483.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 32

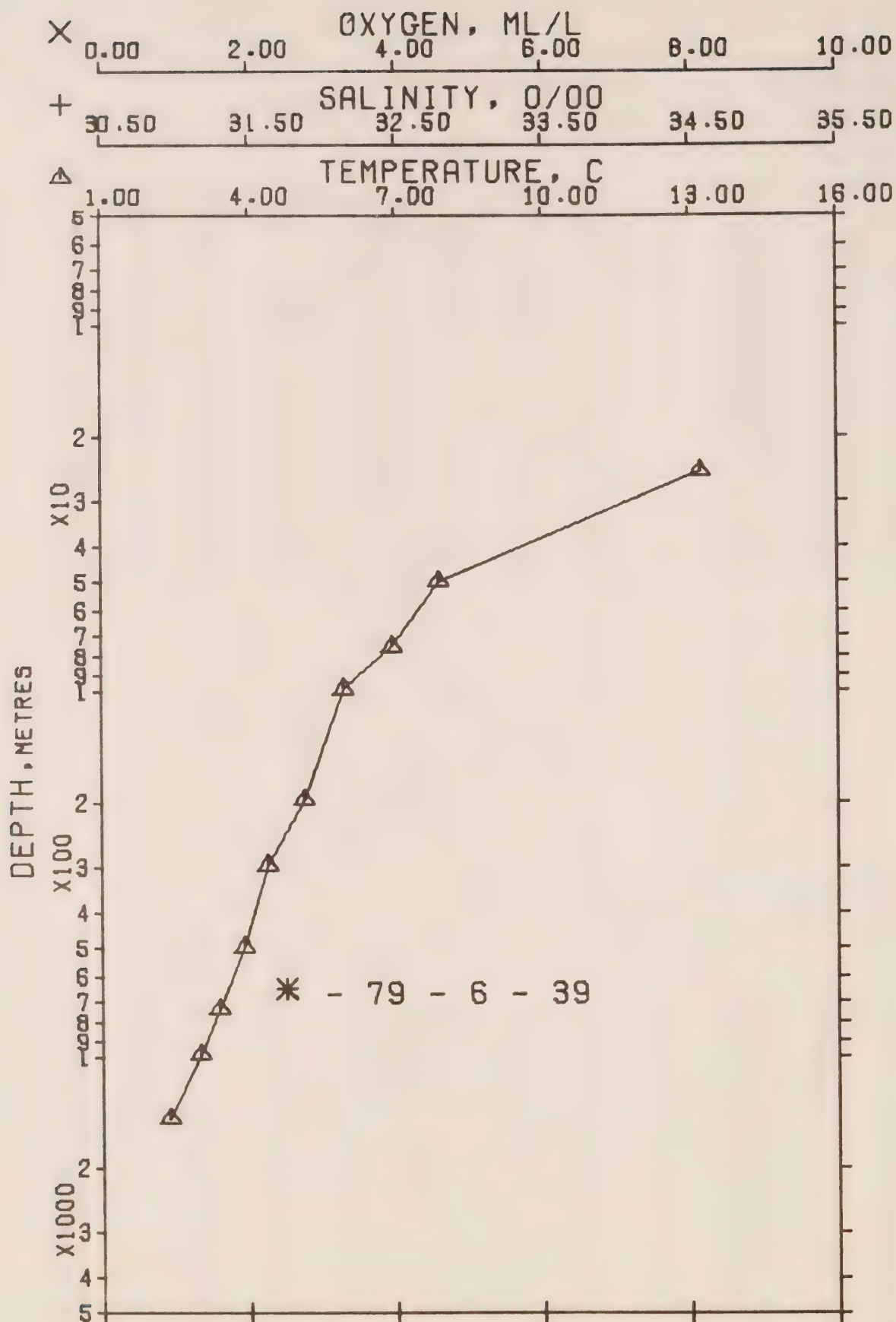
DATE 14/ 8/79

GMT 19.6

POSITION 50- .0 N, 145- .0 W
INTERPOLATED TO STANDARD PRESSURE

STATION P

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.16	32.489	0	24.239	369.2	14.16	369.2	.00	.00	6.17	1502.
10	14.15	32.489	10	24.241	369.2	14.15	368.9	.37	.02	6.15	1502.
20	14.12	32.490	20	24.248	368.8	14.12	368.2	.75	.08	6.16	1502.
30	11.87	32.543	30	24.730	323.0	11.87	322.3	1.09	.17	6.65	1494.
50	7.38	32.666	50	25.554	244.6	7.38	243.9	1.66	.40	6.95	1478.
75	6.80	32.686	75	25.643	236.0	6.79	234.9	2.26	.78	6.84	1476.
100	5.82	32.836	99	25.890	213.1	5.81	211.9	2.82	1.28	6.67	1473.
125	5.12	33.168	124	26.234	180.5	5.11	179.2	3.31	1.83	6.29	1471.
150	5.14	33.476	149	26.476	158.0	5.13	156.3	3.73	2.43	5.46	1472.
175	5.22	33.737	174	26.672	139.7	5.21	137.6	4.10	3.04	4.53	1473.
200	5.10	33.799	199	26.736	133.9	5.08	131.5	4.44	3.69	4.04	1473.
225	4.84	33.817	223	26.779	129.9	4.82	127.4	4.77	4.40	3.59	1472.
250	4.60	33.834	248	26.819	126.3	4.58	123.7	5.09	5.18	3.17	1472.
300	4.23	33.875	298	26.891	119.7	4.21	116.8	5.71	6.90	2.44	1471.
400	4.03	33.985	397	26.999	110.2	4.00	106.5	6.85	10.99	1.75	1472.
500	3.86	34.083	496	27.095	101.8	3.82	97.4	7.91	15.84	1.23	1473.
600	3.68	34.154	595	27.169	95.4	3.63	90.2	8.90	21.33	.94	1474.
700	3.45	34.228	694	27.250	83.2	3.40	82.6	9.82	27.45	.76	1475.
800	3.25	34.288	793	27.316	82.3	3.20	76.2	10.67	33.95	.62	1476.
900	3.09	34.332	892	27.366	78.0	3.02	71.4	11.47	40.89	.57	1477.
1000	2.93	34.369	990	27.411	74.1	2.86	67.2	12.23	48.25	.54	1478.
1200	2.66	34.430	1188	27.483	67.8	2.57	60.2	13.64	64.10	.57	1480.

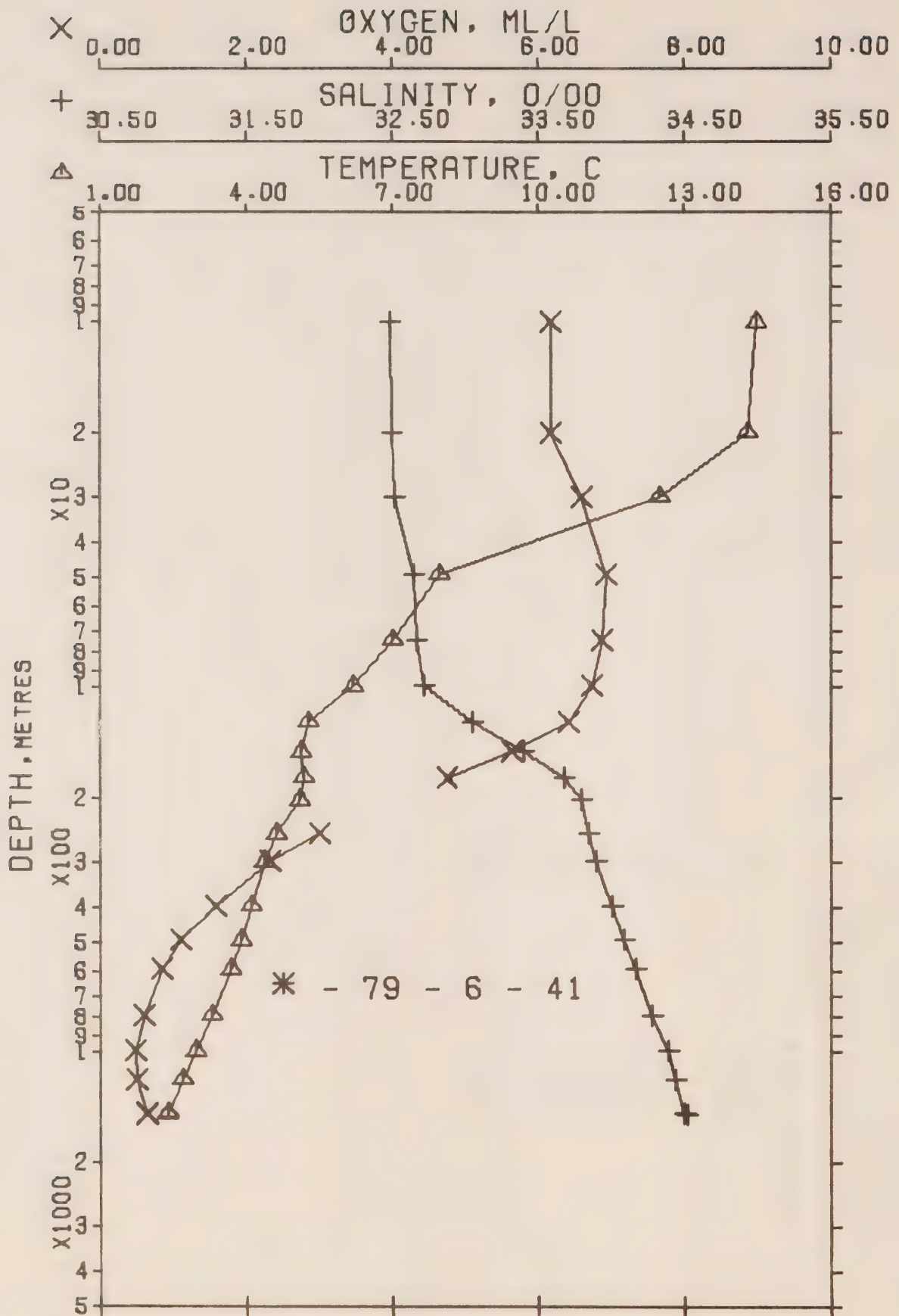


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 6- 39
 POSITION 50- .0 N, 145-
 HYDROGRAPHIC CAST DATA

JATL 20/ 8/79 GMT 19.5
 .0 W STATION P

OBSERVED DATA

TEMP	DEPTH
14.86	0
13.20	25
7.87	50
6.92	75
5.92	98
5.10	197
4.35	297
3.89	497
3.38	735
2.97	975
2.35	1463



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 41

DATE 21/ 8/79

GMT 19.4

POSITION 50- .0 N, 145- .0 W

STATION P

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	15.16	32.479	0	24.019	390.1	15.16	390.1	.00	.00	6.10	1505.
10	14.46	32.494	10	24.180	375.0	14.46	374.7	.38	.02	6.17	1503.
20	14.29	32.497	20	24.218	371.7	14.29	371.1	.76	.08	6.17	1502.
30	12.48	32.521	30	24.598	335.6	12.48	334.8	1.12	.17	6.61	1496.
49	7.97	32.654	49	25.461	253.5	7.97	252.7	1.68	.39	6.95	1481.
74	6.99	32.672	74	25.612	239.4	6.98	238.3	2.30	.78	6.88	1477.
100	6.18	32.724	99	25.758	225.7	6.17	224.5	2.89	1.31	6.74	1474.
125	5.26	33.055	124	26.129	190.6	5.25	189.2	3.41	1.91	6.41	1472.
151	5.11	33.399	150	26.418	163.4	5.10	161.7	3.87	2.56	5.64	1472.
177	5.17	33.679	176	26.632	143.4	5.16	141.4	4.28	3.23	4.75	1473.
204	5.07	33.802	203	26.741	133.4	5.05	131.1	4.65	3.95	4.04*	1473.
253	4.61	33.851	251	26.831	125.1	4.59	122.5	5.27	5.41	2.99	1472.
301	4.37	33.903	299	26.899	119.1	4.35	116.1	5.86	7.07	2.32	1472.
399	4.08	34.005	396	27.010	109.2	4.05	105.5	6.98	11.05	1.59	1472.
497	3.88	34.088	493	27.096	101.7	3.84	97.2	8.01	15.77	1.11	1473.
597	3.67	34.170	592	27.182	94.1	3.63	89.0	8.99	21.22	.85	1474.
798	3.26	34.262	791	27.309	83.1	3.22	76.9	10.77	33.83	.61	1476.
1000	2.95	34.395	990	27.429	72.4	2.88	65.4	12.33	48.10	.48	1478.
1199	2.69	34.437	1187	27.486	67.6	2.61	60.0	13.72	63.66	.50	1480.
1483	2.39	34.498	1467	27.560	61.2	2.29	52.8	15.69	90.85	.65	1484.
1492	2.38	34.518	1476	27.577	59.7	2.28	51.2	15.74	91.68	.65	1484.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 41

DATE 21/ 8/79

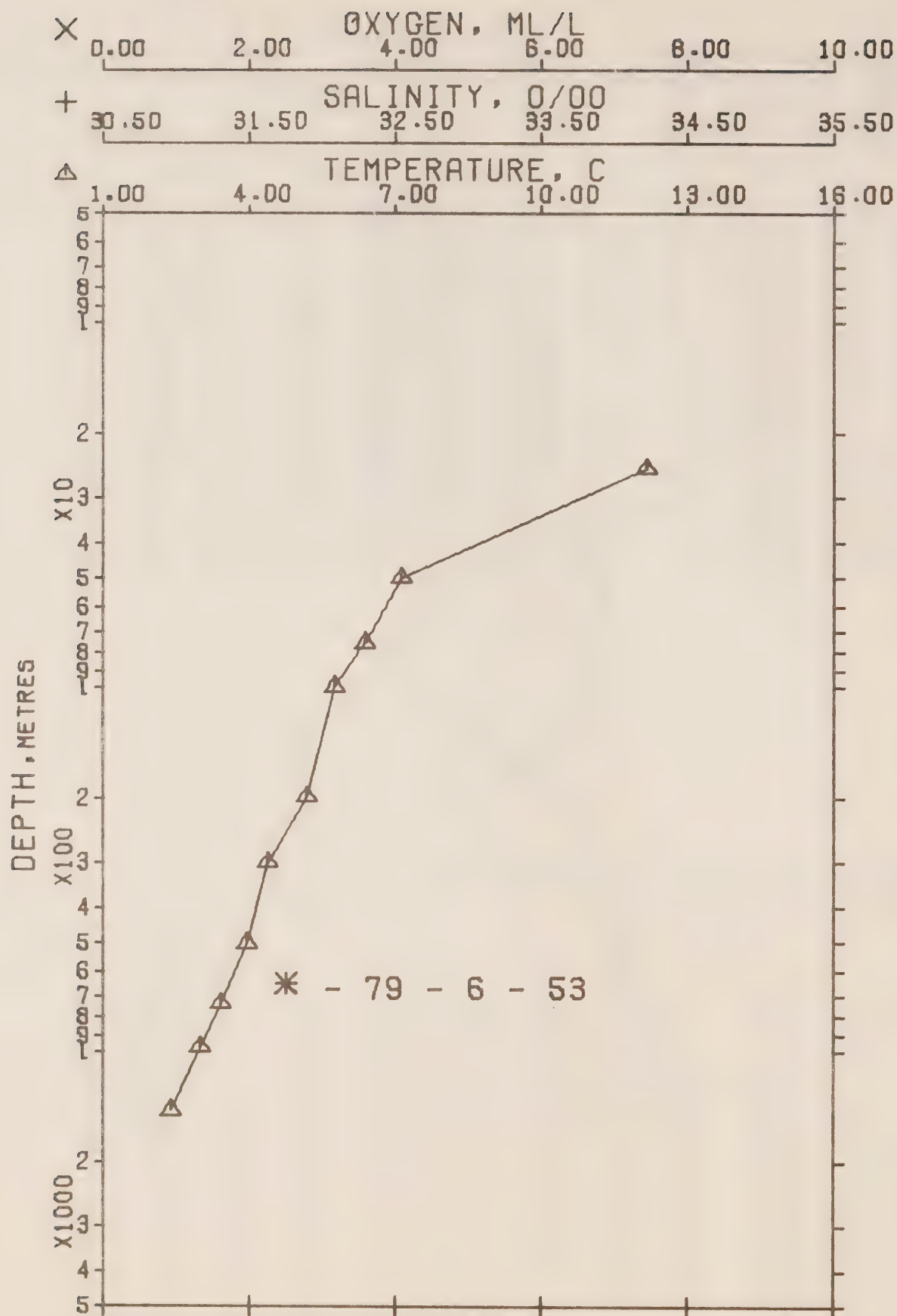
GMT 19.4

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	15.16	32.479	0	24.019	390.1	15.16	390.1	.00	.00	6.10	1505.
10	14.46	32.494	10	24.180	375.0	14.46	374.7	.38	.02	6.17	1503.
20	14.29	32.497	20	24.218	371.7	14.29	371.1	.76	.08	6.17	1502.
30	12.48	32.521	30	24.598	335.6	12.48	334.8	1.12	.17	6.61	1496.
50	7.93	32.655	50	25.467	253.0	7.93	252.2	1.70	.40	6.94	1480.
75	6.97	32.673	75	25.616	239.0	6.96	238.0	2.31	.79	6.87	1477.
100	6.18	32.724	99	25.758	225.7	6.17	224.5	2.89	1.31	6.74	1474.
125	5.26	33.055	124	26.129	190.6	5.25	189.2	3.41	1.91	6.41	1472.
150	5.11	33.388	149	26.409	164.3	5.10	162.7	3.86	2.53	5.66	1472.
175	5.17	33.658	174	26.616	145.0	5.15	142.9	4.24	3.17	4.82	1473.
200	5.09	33.783	199	26.725	134.9	5.07	132.6	4.59	3.83	4.15	1473.
225	4.86	33.824	223	26.782	129.6	4.84	127.1	4.92	4.55	3.57	1473.
250	4.63	33.848	248	26.827	125.5	4.61	122.9	5.24	5.32	3.04	1472.
300	4.38	33.902	298	26.897	119.2	4.35	116.2	5.85	7.03	2.33	1472.
400	4.08	34.006	397	27.011	109.1	4.05	105.4	6.99	11.10	1.58	1472.
500	3.87	34.091	496	27.099	101.4	3.84	96.9	8.04	15.92	1.10	1473.
600	3.66	34.172	595	27.184	93.9	3.62	88.8	9.02	21.39	.84	1474.
700	3.46	34.231	694	27.252	88.0	3.41	82.4	9.93	27.41	.72	1475.
800	3.28	34.283	793	27.310	82.9	3.22	76.8	10.78	33.95	.60	1476.
900	3.10	34.342	892	27.373	77.4	3.04	70.7	11.58	40.89	.54	1477.
1000	2.95	34.395	990	27.429	72.4	2.88	65.4	12.33	48.10	.48	1478.
1200	2.69	34.437	1188	27.486	67.6	2.61	59.9	13.72	63.73	.50	1480.



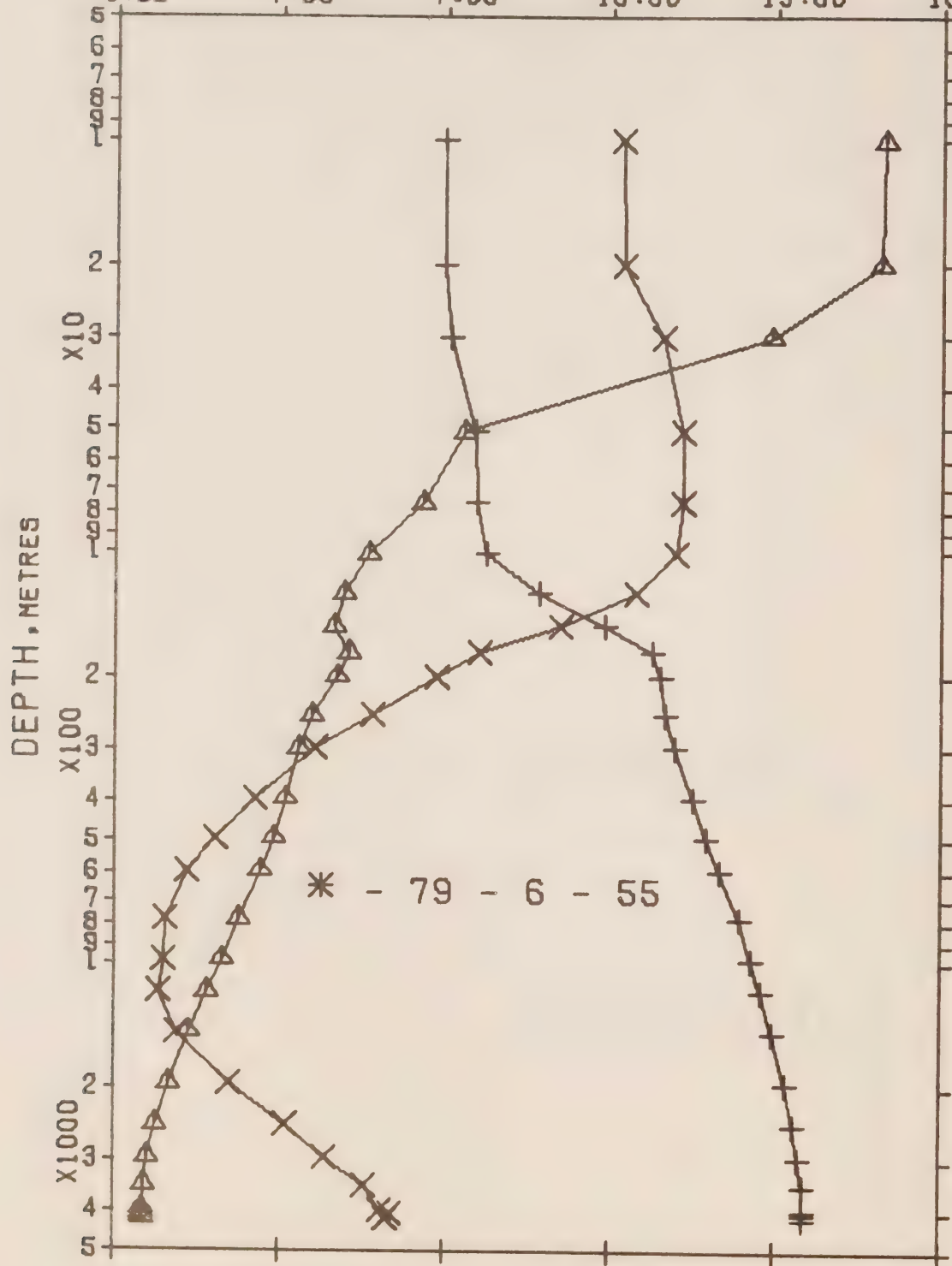
OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 6- 53
 POSITION 50- .0 N, 145-
 HYDROGRAPHIC CAST DATA

DATE 27/ 8/79 GMT 19.5
 .0 W

STATION P

OBSERVED DATA

TEMP	DEPTH
14.89	0
12.17	25
7.12	50
6.37	75
5.73	99
5.16	199
4.30	300
3.93	501
3.39	733
2.99	970
2.39	1443



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 6- 55
POSITION 50- .0 N, 145-
HYDROGRAPHIC CAST DATA

DATE 28/ 8/79 GMT 18.6
.0 W

STATION P

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.97	32.492	0	24.070	385.2	14.97	385.2	.00	.00	6.18	1504.
10	14.96	32.490	10	24.071	385.4	14.96	385.1	.39	.02	6.14	1504.
20	14.90	32.469	20	24.083	384.6	14.90	384.0	.78	.08	6.15	1504.
30	12.90	32.532	30	24.526	342.5	12.90	341.8	1.14	.17	6.64	1498.
51	7.34	32.675	51	25.567	243.5	7.34	242.7	1.76	.43	6.88	1478.
76	6.58	32.688	76	25.679	233.1	6.57	232.0	2.36	.81	6.88	1476.
102	5.58	32.748	101	25.850	216.9	5.57	215.8	2.93	1.33	6.80	1472.
127	5.13	33.067	126	26.154	188.2	5.12	186.9	3.44	1.92	6.31	1471.
152	4.95	33.475	151	26.496	156.0	4.94	154.3	3.87	2.54	5.40	1471.
176	5.23	33.764	175	26.693	137.8	5.22	135.7	4.22	3.13	4.41	1473.
201	5.02	33.811	200	26.754	132.1	5.00	129.8	4.56	3.78	3.90	1473.
251	4.56	33.843	249	26.831	125.1	4.54	122.5	5.19	5.24	3.11	1472.
301	4.34	33.896	299	26.896	119.3	4.32	116.3	5.81	6.97	2.43	1472.
400	4.09	34.006	397	27.010	109.2	4.06	105.5	6.94	11.00	1.71	1472.
499	3.89	34.091	495	27.098	101.6	3.85	97.1	7.98	15.78	1.22	1473.
599	3.64	34.166	594	27.162	94.1	3.60	89.0	8.96	21.24	.89	1474.
788	3.25	34.286	781	27.315	82.4	3.20	76.3	10.62	32.96	.62	1476.
985	2.96	34.360	976	27.401	75.0	2.89	68.1	12.17	46.95	.61	1478.
1184	2.69	34.422	1172	27.474	68.6	2.61	61.1	13.59	62.68	.55	1480.
1484	2.35	34.494	1468	27.560	61.1	2.25	52.8	15.53	89.00	.76	1484.
1987	1.99	34.575	1963	27.654	53.1	1.85	43.7	18.40	139.68	1.40	1490.
2495	1.76	34.620	2462	27.708	48.8	1.58	38.3	20.98	198.50	2.08	1498.
3007	1.61	34.651	2963	27.744	46.1	1.39	34.7	23.40	266.48	2.56	1506.
3518	1.53	34.684	3463	27.776	44.1	1.26	31.3	25.71	343.07	3.05	1515.
4030	1.52	34.678	3962	27.772	45.6	1.19	31.3	27.98	430.65	3.25	1523.
4131	1.52	34.679	4061	27.773	45.8	1.18	31.2	28.45	449.98	3.37	1525.
4224	1.52	34.682	4151	27.775	45.8	1.17	30.9	28.87	468.01	3.30	1527.
4234	1.53	34.681	4161	27.774	46.1	1.18	31.0	28.92	470.05	3.32	1527.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 55

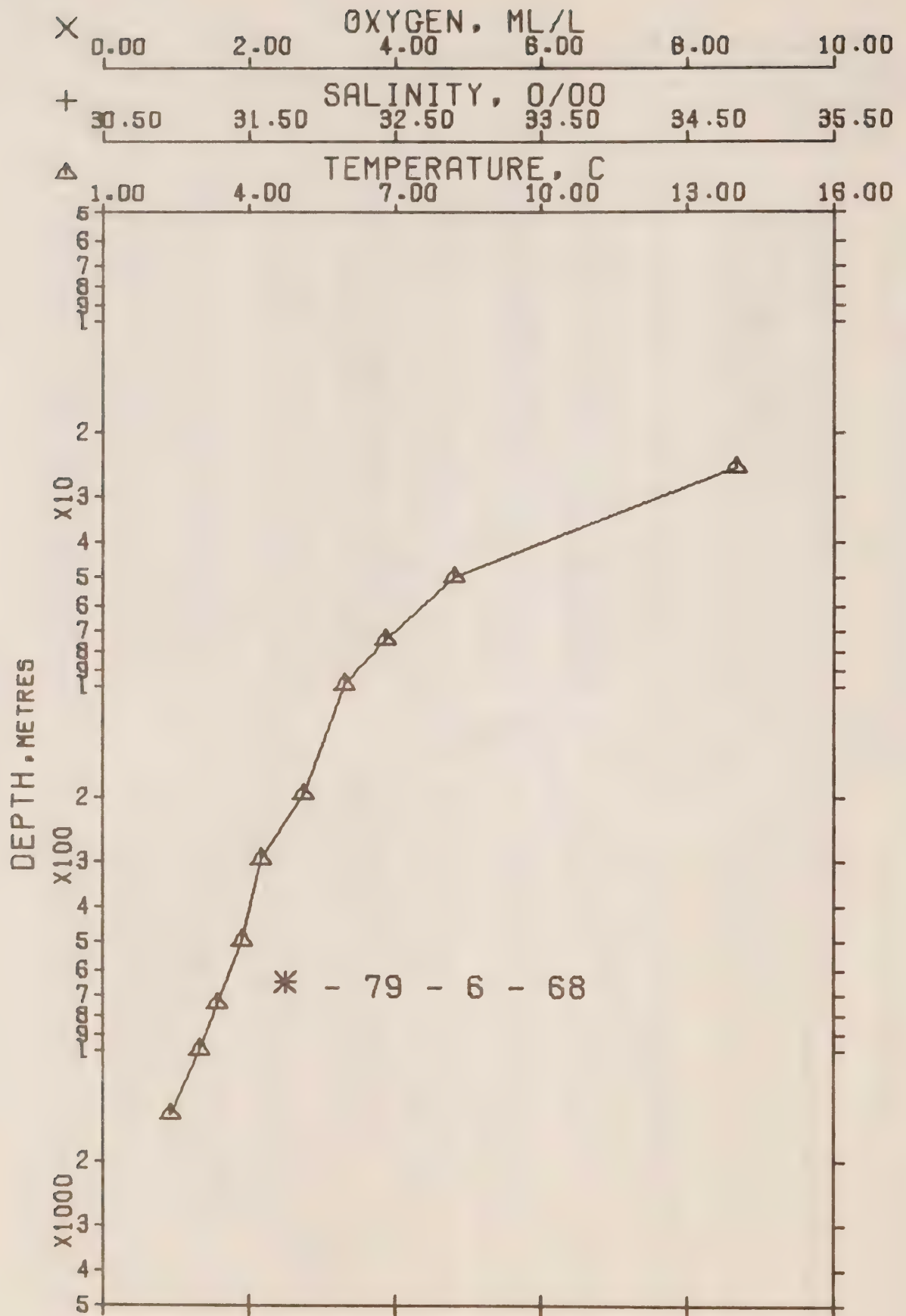
DATE 28/ 8/79 GMT 18.6

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.97	32.492	0	24.070	385.2	14.97	385.2	.00	.00	6.18	1504.
10	14.96	32.490	10	24.071	385.4	14.96	385.1	.39	.02	6.14	1504.
20	14.90	32.489	20	24.083	384.6	14.90	384.0	.78	.08	6.15	1504.
30	12.90	32.532	30	24.526	342.5	12.90	341.8	1.14	.17	6.64	1498.
50	7.60	32.668	50	25.525	247.5	7.60	246.7	1.73	.41	6.87	1479.
75	6.62	32.687	75	25.674	233.5	6.61	232.5	2.32	.79	6.88	1476.
100	5.64	32.745	99	25.840	217.8	5.63	216.6	2.89	1.29	6.81	1472.
125	5.16	33.047	124	26.134	190.1	5.15	188.7	3.40	1.88	6.34	1471.
150	4.96	33.446	149	26.472	158.3	4.95	156.7	3.84	2.49	5.47	1471.
175	5.22	33.751	174	26.684	138.6	5.20	136.5	4.21	3.10	4.46	1473.
200	5.03	33.809	199	26.751	132.4	5.01	130.1	4.54	3.74	3.93	1473.
225	4.79	33.827	223	26.793	128.6	4.77	126.1	4.87	4.44	3.50	1472.
250	4.57	33.843	248	26.830	125.2	4.55	122.6	5.19	5.21	3.12	1472.
300	4.34	33.895	298	26.895	119.4	4.32	116.4	5.80	6.92	2.44	1472.
400	4.09	34.006	397	27.010	109.2	4.06	105.5	6.94	11.00	1.71	1472.
500	3.89	34.092	496	27.098	101.5	3.85	97.0	7.99	15.83	1.21	1473.
600	3.64	34.167	595	27.183	94.0	3.60	88.9	8.97	21.30	.89	1474.
700	3.42	34.234	694	27.258	87.4	3.37	81.8	9.87	27.30	.74	1475.
800	3.23	34.291	793	27.321	81.9	3.18	75.8	10.72	33.75	.62	1476.
900	3.08	34.330	892	27.366	78.0	3.02	71.5	11.52	40.67	.61	1477.
1000	2.94	34.365	990	27.406	74.5	2.87	67.6	12.28	48.06	.60	1478.
1200	2.67	34.426	1188	27.479	68.2	2.59	60.6	13.70	64.01	.56	1480.
1500	2.34	34.497	1484	27.564	60.8	2.24	52.5	15.63	90.47	.78	1484.
2000	1.98	34.576	1976	27.656	53.0	1.85	43.5	18.47	141.08	1.42	1491.
2500	1.76	34.620	2467	27.708	48.8	1.58	38.3	21.00	199.10	2.09	1498.
3000	1.61	34.651	2957	27.743	46.2	1.39	34.7	23.37	265.56	2.55	1506.
3500	1.53	34.683	3445	27.775	44.1	1.26	31.4	25.63	340.24	3.03	1514.
4000	1.52	34.678	3933	27.772	45.6	1.20	31.3	27.85	425.14	3.24	1523.
4100	1.52	34.679	4031	27.773	45.8	1.19	31.2	28.30	444.00	3.33	1524.
4200	1.52	34.681	4128	27.775	45.8	1.17	31.0	28.76	463.38	3.32	1526.

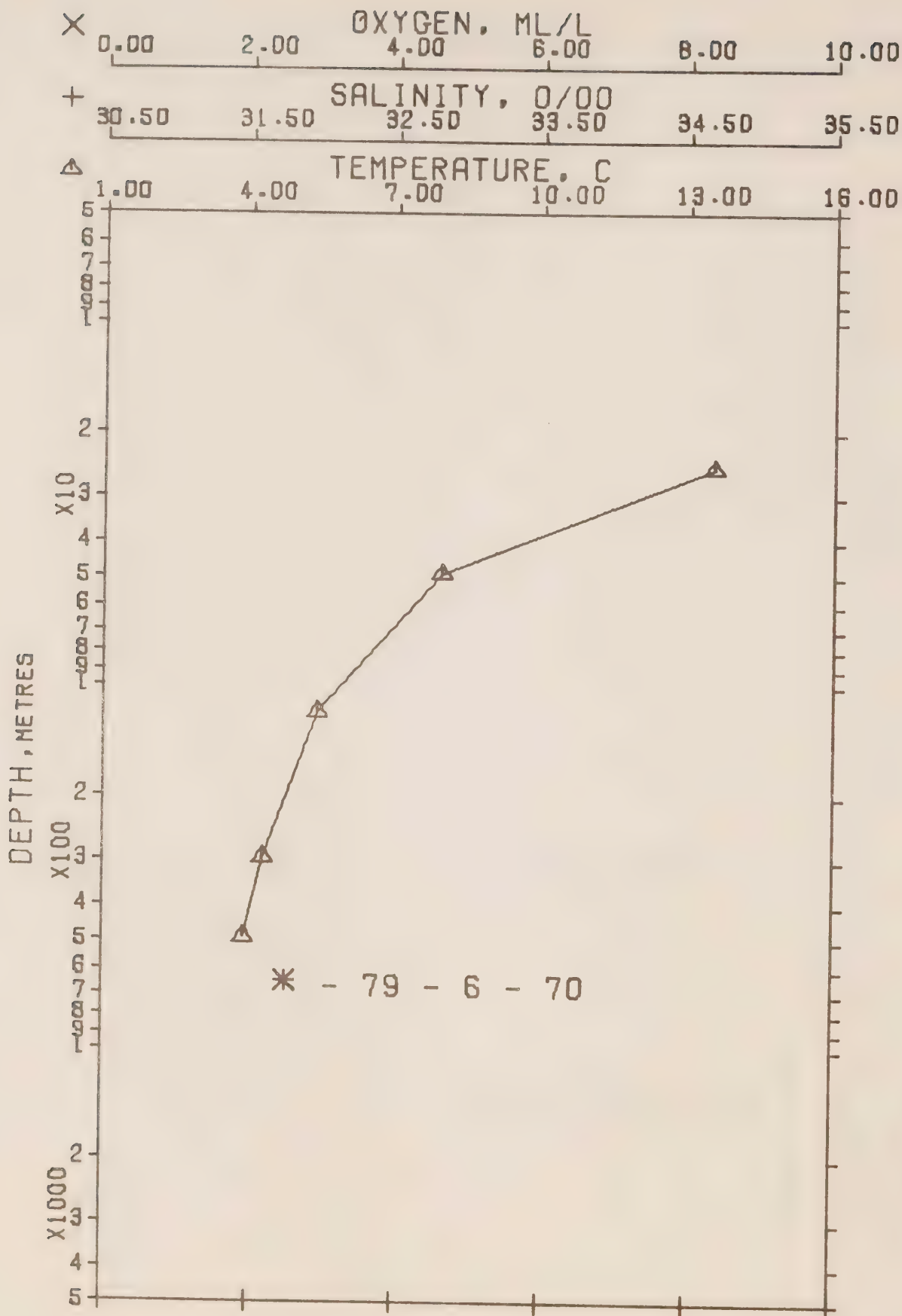


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 6- 08
 POSITION 50- .0 N, 145-
 HYDROGRAPHIC CAST DATA

DATE 6/ 9/79 GNT 19.4
 .0 W STATION P

OBSERVED DATA

TEMP	DEPTH
14.23	0
13.98	25
8.21	50
6.78	74
5.95	98
5.10	197
4.24	297
3.85	496
3.35	741
2.99	991
2.37	1491

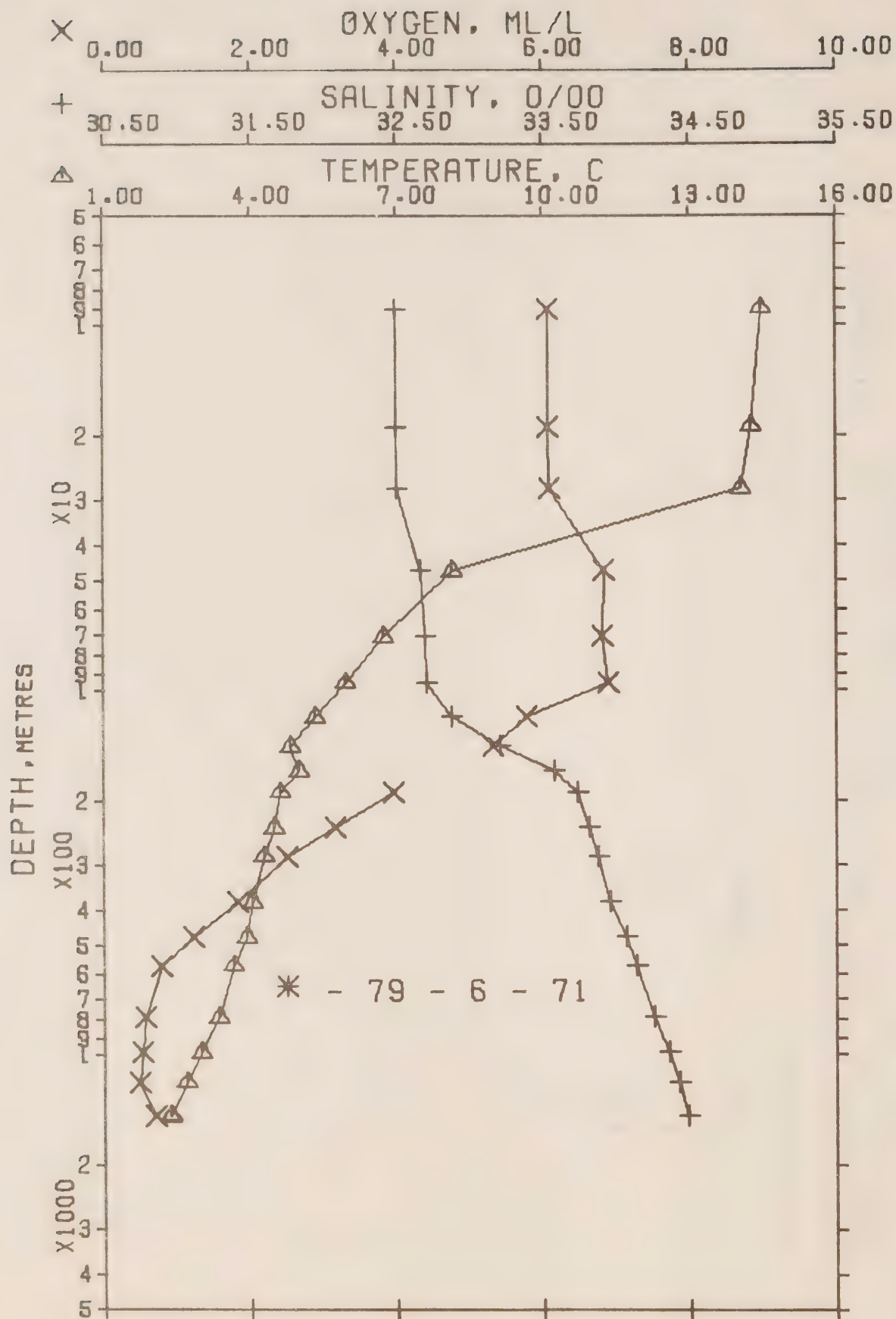


OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 6- 70
POSITION 50- .0 N. 145-
HYDROGRAPHIC CAST DATA

DATE 7/ 9/79 GMT 19.5
.0 W STATION P

OBSERVED DATA

TEMP	DEPTH
14.33	0
13.51	25
7.92	49
5.39	118
4.28	296
3.87	491



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 71

DATE 8/ 9/79

GMT 6.0

POSITION 50- .0 N, 145-

.0 W

STATION P

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.49	32.503	0	24.181	374.7	14.49	374.7	.00	.00	6.05	1503.
9	14.46	32.503	9	24.187	374.3	14.46	374.1	.34	.02	6.08	1503.
19	14.27	32.502	19	24.226	370.9	14.27	370.3	.71	.07	6.08	1502.
28	14.05	32.507	28	24.276	366.4	14.05	365.6	1.05	.15	6.10	1502.
47	8.14	32.668	47	25.448	254.8	8.14	254.0	1.04	.37	6.83	1481.
71	6.74	32.695	71	25.663	234.5	6.73	233.5	2.23	.73	6.82	1476.
96	5.96	32.710	95	25.774	224.1	5.95	222.9	2.79	1.20	6.90	1473.
119	5.33	32.884	118	25.966	204.1	5.32	202.8	3.28	1.75	5.78	1471.
143	4.80	33.213	142	26.306	173.9	4.79	172.4	3.74	2.35	5.32	1470.
167	4.99	33.583	166	26.577	148.5	4.98	146.6	4.13	2.96	4.59*	1472.
191	4.61	33.737	190	26.741	133.0	4.60	131.1	4.47	3.58	3.96	1471.
240	4.48	33.821	238	26.822	125.8	4.46	123.4	5.09	4.96	3.16	1471.
287	4.28	33.876	285	26.887	120.0	4.26	117.2	5.67	6.52	2.49	1471.
383	4.04	33.957	380	26.976	112.2	4.01	108.7	6.79	10.32	1.81	1472.
479	3.90	34.071	475	27.081	103.0	3.87	98.7	7.82	14.84	1.23	1473.
573	3.65	34.145	568	27.164	95.6	3.61	90.7	8.75	19.83	.77	1474.
795	3.33	34.260	788	27.287	85.2	3.27	79.0	10.75	33.77	.56	1476.
989	2.99	34.355	980	27.394	75.7	2.92	68.8	12.31	47.93	.52	1478.
1195	2.68	34.429	1183	27.480	68.1	2.60	60.5	13.79	64.33	.48	1480.
1482	2.36	34.494	1466	27.560	61.2	2.26	52.9	15.62	89.30	.70	1484.
1491	2.30	34.495	1475	27.560	61.2	2.26	52.8	15.68	90.15	.70	1484.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 71

DATE 8/ 9/79

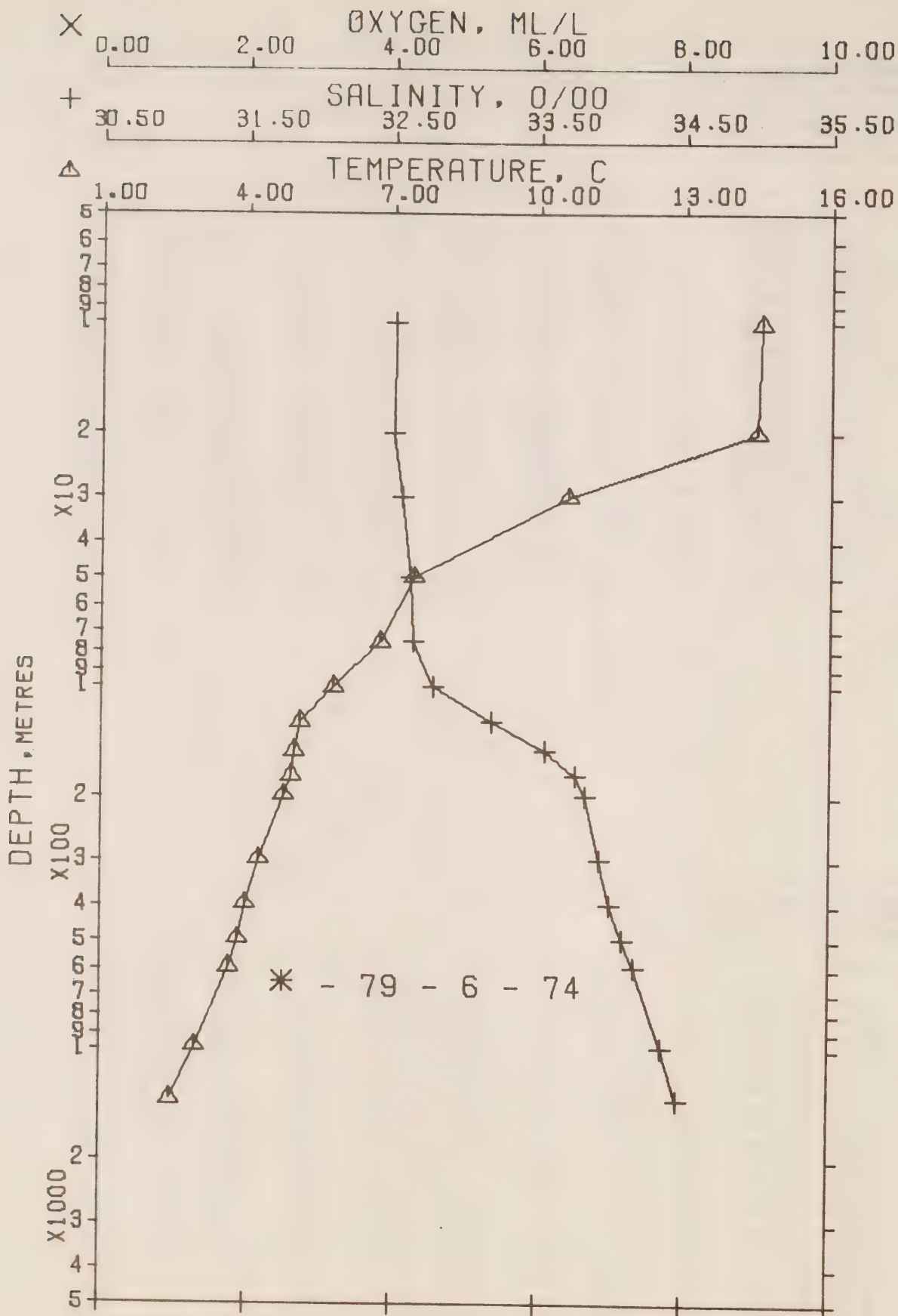
GMT 6.0

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.49	32.503	0	24.181	374.7	14.49	374.7	.00	.00	6.05	1503.
10	14.44	32.503	10	24.192	373.9	14.43	373.6	.37	.02	6.08	1503.
20	14.24	32.503	20	24.232	370.3	14.24	369.8	.75	.08	6.08	1502.
30	13.32	32.527	30	24.438	350.9	13.32	350.1	1.12	.17	6.19	1499.
50	7.95	32.672	50	25.478	251.9	7.94	251.1	1.71	.41	6.83	1481.
75	6.61	32.698	75	25.683	232.7	6.60	231.7	2.31	.79	6.84	1476.
100	5.83	32.746	99	25.819	219.9	5.82	218.7	2.88	1.30	6.67	1473.
125	5.18	32.976	124	26.075	195.6	5.17	194.3	3.41	1.90	5.65	1471.
150	4.86	33.328	149	26.390	166.0	4.85	164.4	3.86	2.53	5.09	1471.
175	4.86	33.636	174	26.634	143.2	4.85	141.3	4.24	3.17	4.37	1471.
200	4.58	33.754	199	26.757	131.6	4.57	129.5	4.58	3.81	3.80	1471.
225	4.52	33.797	223	26.799	127.8	4.50	125.5	4.91	4.52	3.39	1471.
250	4.43	33.834	248	26.837	124.5	4.41	121.9	5.22	5.28	3.00	1471.
300	4.24	33.888	298	26.900	118.8	4.22	115.9	5.83	6.98	2.39	1471.
400	4.01	33.979	397	26.996	110.4	3.98	106.7	6.98	11.08	1.70	1472.
500	3.84	34.089	496	27.101	101.2	3.80	96.8	8.03	15.92	1.12	1473.
600	3.60	34.161	595	27.182	94.1	3.56	89.1	9.01	21.37	.74	1474.
700	3.45	34.215	694	27.239	89.2	3.41	83.5	9.92	27.44	.64	1475.
800	3.32	34.263	793	27.290	84.9	3.26	78.7	10.79	34.10	.56	1476.
900	3.14	34.314	892	27.348	79.8	3.07	73.2	11.62	41.23	.54	1477.
1000	2.97	34.359	990	27.399	75.3	2.90	68.3	12.39	48.74	.52	1478.
1200	2.67	34.430	1188	27.482	67.9	2.59	60.3	13.82	64.74	.48	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 74

DATE 9/ 9/79

GMT 18.6

POSITION 49-49.0 N, 142-40.0 W

STATION 12

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.56	32.507	0	24.169	375.8	14.56	375.8	.00	.00		1503.
10	14.55	32.509	10	24.173	375.7	14.55	375.4	.38	.02		1503.
20	14.48	32.503	20	24.183	375.0	14.48	374.4	.76	.08		1503.
30	10.60	32.564	30	24.974	299.8	10.60	299.1	1.10	.17		1490.
50	7.41	32.619	50	25.513	248.5	7.41	247.8	1.65	.39		1478.
75	6.72	32.643	75	25.625	238.2	6.71	237.1	2.26	.78		1476.
101	5.76	32.777	100	25.851	216.8	5.75	215.6	2.83	1.29		1473.
126	5.07	33.181	125	26.250	179.0	5.06	177.7	3.33	1.87		1471.
151	4.96	33.548	150	26.553	150.6	4.95	149.0	3.75	2.45		1471.
176	4.89	33.755	175	26.724	134.6	4.88	132.7	4.10	3.05		1472.
200	4.76	33.827	199	26.796	128.0	4.74	125.9	4.42	3.65		1472.
300	4.23	33.925	298	26.931	115.9	4.21	113.0	5.63	6.74		1471.
399	3.96	33.997	396	27.016	108.5	3.93	104.9	6.74	10.69		1472.
498	3.81	34.092	494	27.106	100.6	3.77	96.3	7.77	15.41		1473.
596	3.64	34.166	591	27.182	94.1	3.60	89.0	8.73	20.72		1474.
987	2.94	34.364	978	27.405	74.5	2.87	67.7	11.99	46.84		1478.
1382	2.44	34.473	1367	27.536	63.1	2.35	55.1	14.69	79.30		1482.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 74

DATE 9/ 9/79

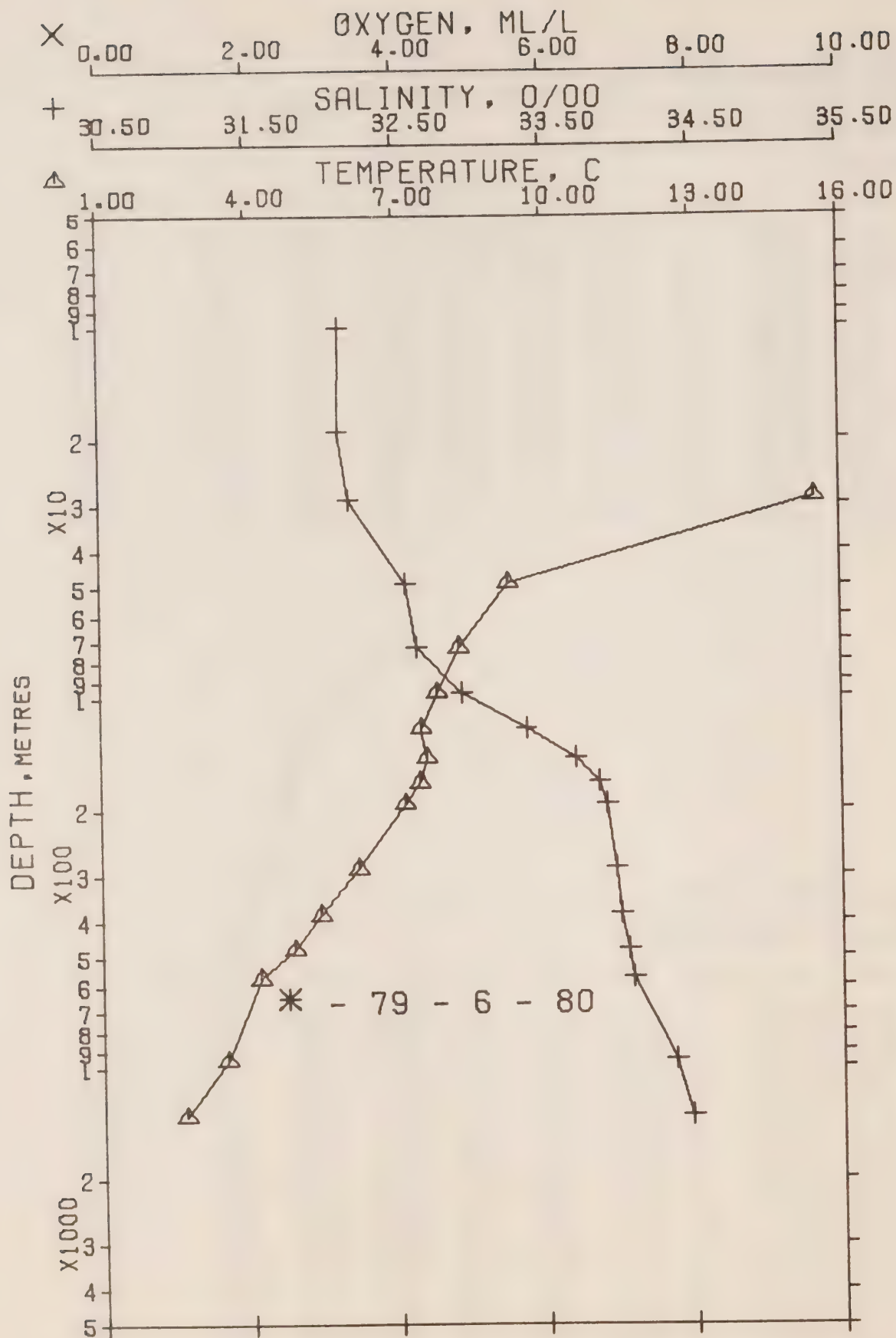
GMT 18.6

POSITION 49-49.0 N, 142-40.0 W

STATION 12

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	14.56	32.507	0	24.169	375.8	14.56	375.8	.00	.00		1503.
10	14.55	32.509	10	24.173	375.7	14.55	375.4	.38	.02		1503.
20	14.48	32.503	20	24.183	375.0	14.48	374.4	.76	.08		1503.
30	10.60	32.564	30	24.974	299.8	10.60	299.1	1.10	.17		1490.
50	7.41	32.619	50	25.513	248.5	7.41	247.8	1.65	.39		1478.
75	6.72	32.643	75	25.625	238.2	6.71	237.1	2.26	.78		1476.
100	5.76	32.774	99	25.847	217.2	5.77	216.1	2.82	1.28		1473.
125	5.09	33.170	124	26.239	180.1	5.08	178.7	3.32	1.85		1471.
150	4.96	33.535	149	26.542	151.6	4.95	150.0	3.73	2.43		1471.
175	4.89	33.746	174	26.717	135.3	4.88	133.4	4.09	3.02		1472.
200	4.76	33.827	199	26.796	128.0	4.74	125.9	4.42	3.65		1472.
225	4.61	33.855	223	26.835	124.5	4.59	122.2	4.73	4.33		1472.
250	4.47	33.881	248	26.870	121.4	4.45	118.8	5.04	5.07		1471.
300	4.23	33.925	296	26.931	115.9	4.21	113.0	5.63	6.74		1471.
400	3.96	33.998	397	27.017	108.4	3.93	104.8	6.75	10.73		1472.
500	3.81	34.094	496	27.108	100.5	3.77	96.1	7.79	15.51		1473.
600	3.63	34.169	595	27.165	93.8	3.59	88.7	8.76	20.95		1474.
700	3.42	34.229	694	27.254	87.8	3.37	82.2	9.67	26.96		1475.
800	3.23	34.281	793	27.313	82.6	3.18	76.5	10.52	33.47		1476.
900	3.07	34.328	892	27.365	78.1	3.01	71.6	11.33	40.42		1477.
1000	2.92	34.368	990	27.411	74.1	2.85	67.2	12.09	47.78		1478.
1200	2.65	34.427	1188	27.482	67.9	2.57	60.4	13.50	63.67		1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 80

DATE 11/ 9/79

GMT 16.6

POSITION 48-51.0 N, 128-40.0 W

STATION 5

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	16.62	32.114	0	23.414	447.8	16.62	447.8	.00	.00		1509.
10	16.50	32.132	10	23.456	444.2	16.50	443.9	.45	.02		1509.
19	16.32	32.116	19	23.484	441.7	16.32	441.1	.85	.08		1508.
29	15.49	32.190	29	23.726	418.9	15.49	418.0	1.28	.19		1506.
49	9.28	32.570	49	25.197	278.8	9.27	277.8	1.98	.46		1485.
73	8.26	32.645	73	25.412	258.6	8.25	257.4	2.63	.87		1482.
98	7.81	32.944	97	25.711	230.5	7.80	228.9	3.22	1.38		1481.
122	7.47	33.375	121	26.098	194.2	7.46	192.1	3.73	1.95		1481.
146	7.60	33.707	145	26.339	171.7	7.59	169.2	4.17	2.55		1482.
170	7.46	33.870	169	26.487	158.0	7.44	155.1	4.57	3.19		1482.
194	7.16	33.921	193	26.569	150.5	7.14	147.3	4.94	3.88		1481.
290	6.18	33.977	288	26.744	134.8	6.15	130.6	6.30	7.23		1479.
386	5.41	34.005	383	26.862	124.3	5.38	119.4	7.54	11.50		1478.
481	4.88	34.062	477	26.968	114.7	4.84	109.3	8.68	16.50		1477.
576	4.19	34.092	571	27.067	105.5	4.15	99.9	9.72	22.11		1476.
961	3.49	34.367	952	27.356	80.2	3.42	72.3	13.25	49.47		1480.
1362	2.64	34.477	1348	27.522	65.0	2.55	56.4	16.15	83.58		1483.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 80

DATE 11/ 9/79

GMT 16.6

POSITION 48-51.0 N, 128-40.0 W

STATION 5

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	16.62	32.114	0	23.414	447.8	16.62	447.8	.00	.00		1509.
10	16.50	32.132	10	23.456	444.2	16.50	443.9	.45	.02		1509.
20	16.23	32.124	20	23.511	439.1	16.22	438.5	.89	.09		1508.
30	15.14	32.211	30	23.819	410.0	15.13	409.2	1.32	.20		1505.
50	9.24	32.573	50	25.206	278.0	9.23	277.0	2.00	.47		1485.
75	8.23	32.668	75	25.435	256.4	8.22	255.2	2.67	.90		1482.
100	7.77	32.993	99	25.755	226.4	7.76	224.7	3.28	1.44		1481.
125	7.49	33.424	124	26.133	190.8	7.48	188.7	3.80	2.03		1481.
150	7.57	33.737	149	26.366	169.2	7.56	166.6	4.24	2.66		1482.
175	7.40	33.881	174	26.505	156.4	7.38	153.4	4.65	3.33		1482.
200	7.09	33.925	199	26.583	149.3	7.07	146.0	5.03	4.06		1481.
225	6.80	33.942	224	26.635	144.6	6.78	141.0	5.40	4.85		1481.
250	6.54	33.956	248	26.681	140.5	6.52	136.7	5.75	5.72		1480.
300	6.09	33.980	298	26.759	133.5	6.06	129.2	6.44	7.63		1479.
400	5.32	34.014	397	26.879	122.7	5.29	117.7	7.72	12.20		1478.
500	4.73	34.069	496	26.990	112.7	4.69	107.2	8.90	17.59		1477.
600	4.13	34.114	595	27.091	103.4	4.09	97.6	9.98	23.64		1476.
700	3.92	34.197	694	27.178	95.7	3.87	89.3	10.97	30.22		1477.
800	3.74	34.269	793	27.254	89.1	3.68	82.1	11.89	37.28		1478.
900	3.58	34.332	892	27.320	83.4	3.51	75.8	12.75	44.75		1479.
1000	3.39	34.380	991	27.376	78.5	3.32	70.4	13.56	52.57		1480.
1200	2.95	34.437	1188	27.463	70.5	2.86	62.1	15.05	69.27		1481.

Results of STD Observations

(P-79-6)

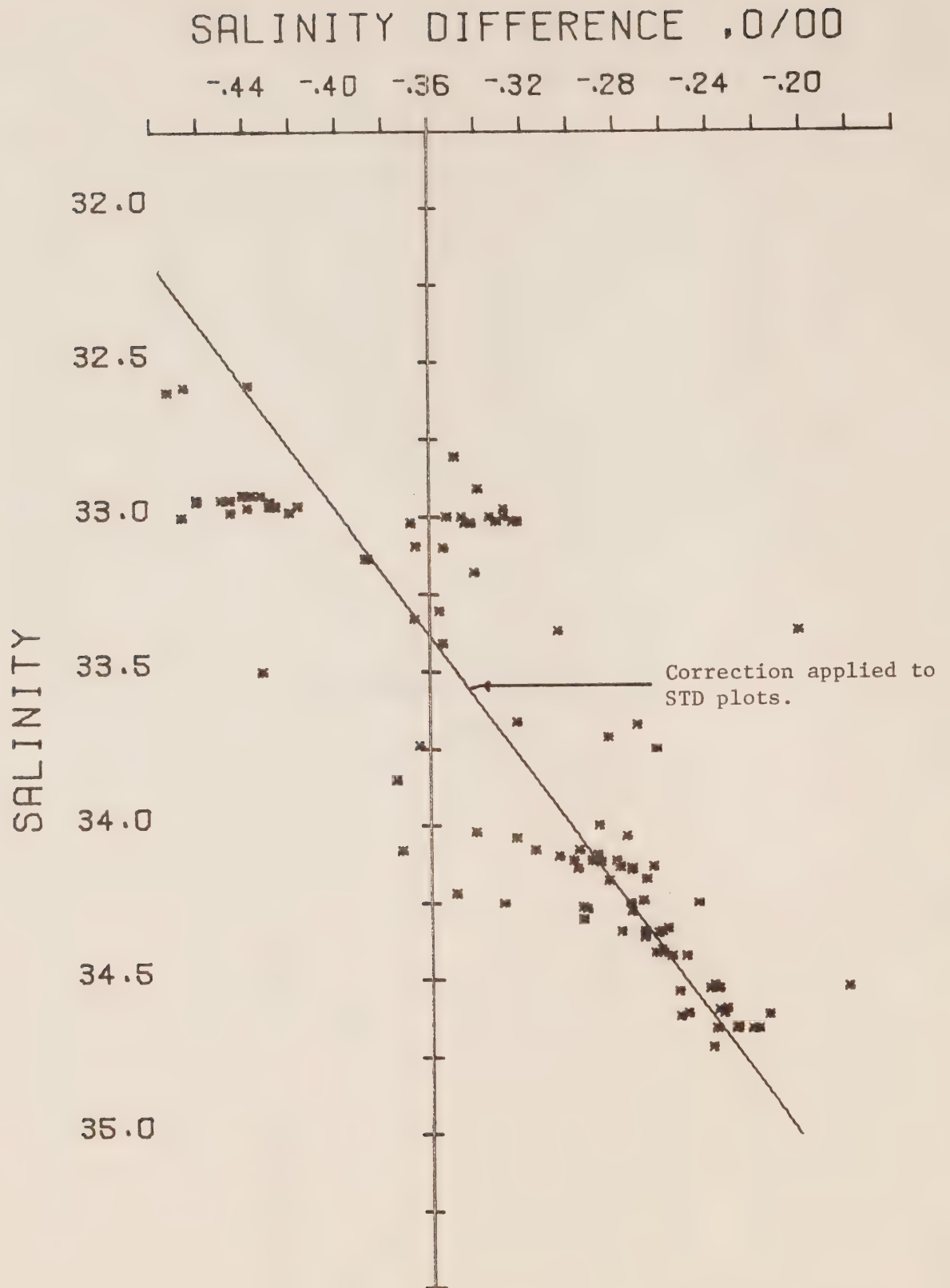


Figure 7. Salinity difference between hydro data and STD.
P-79-6.

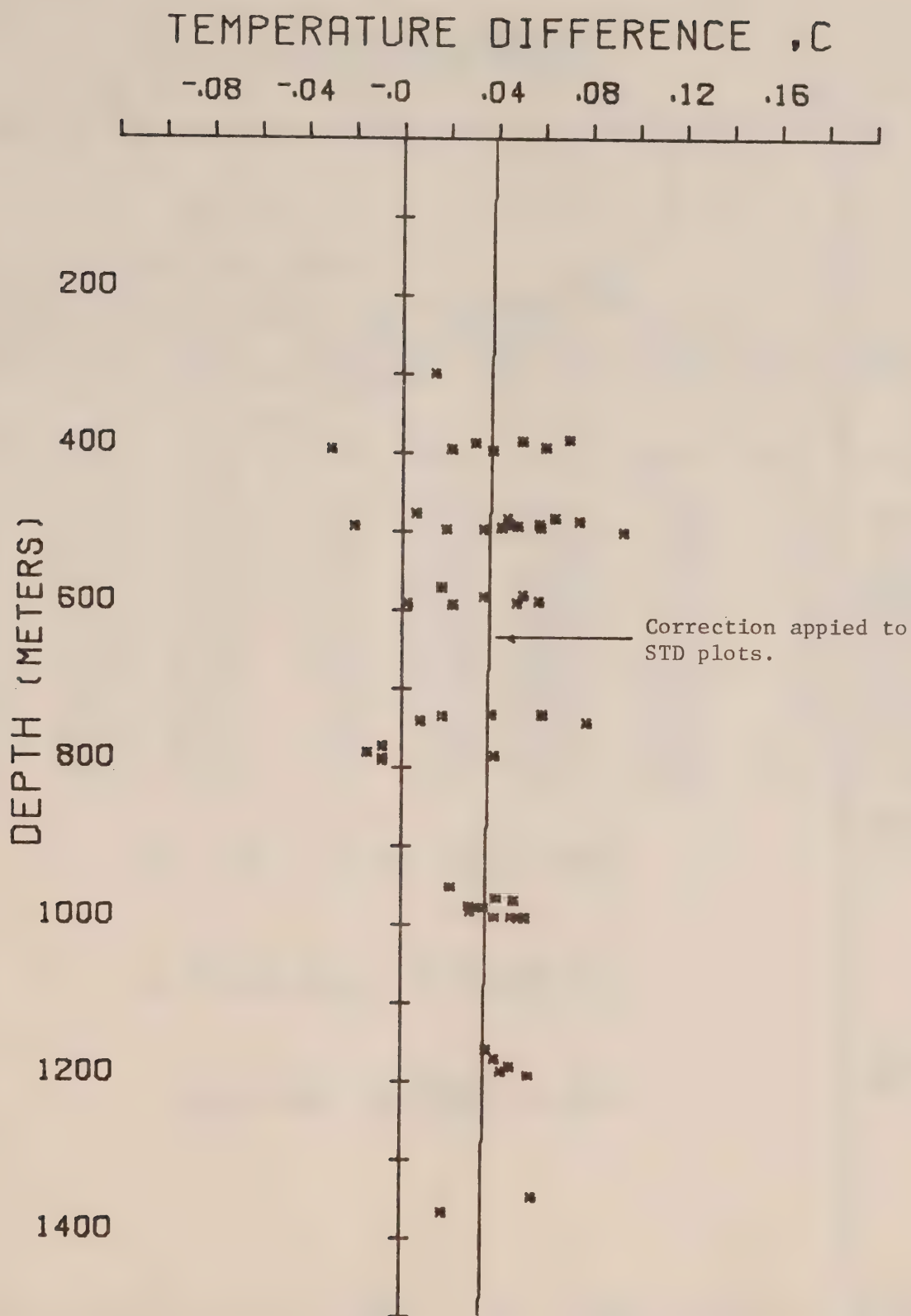
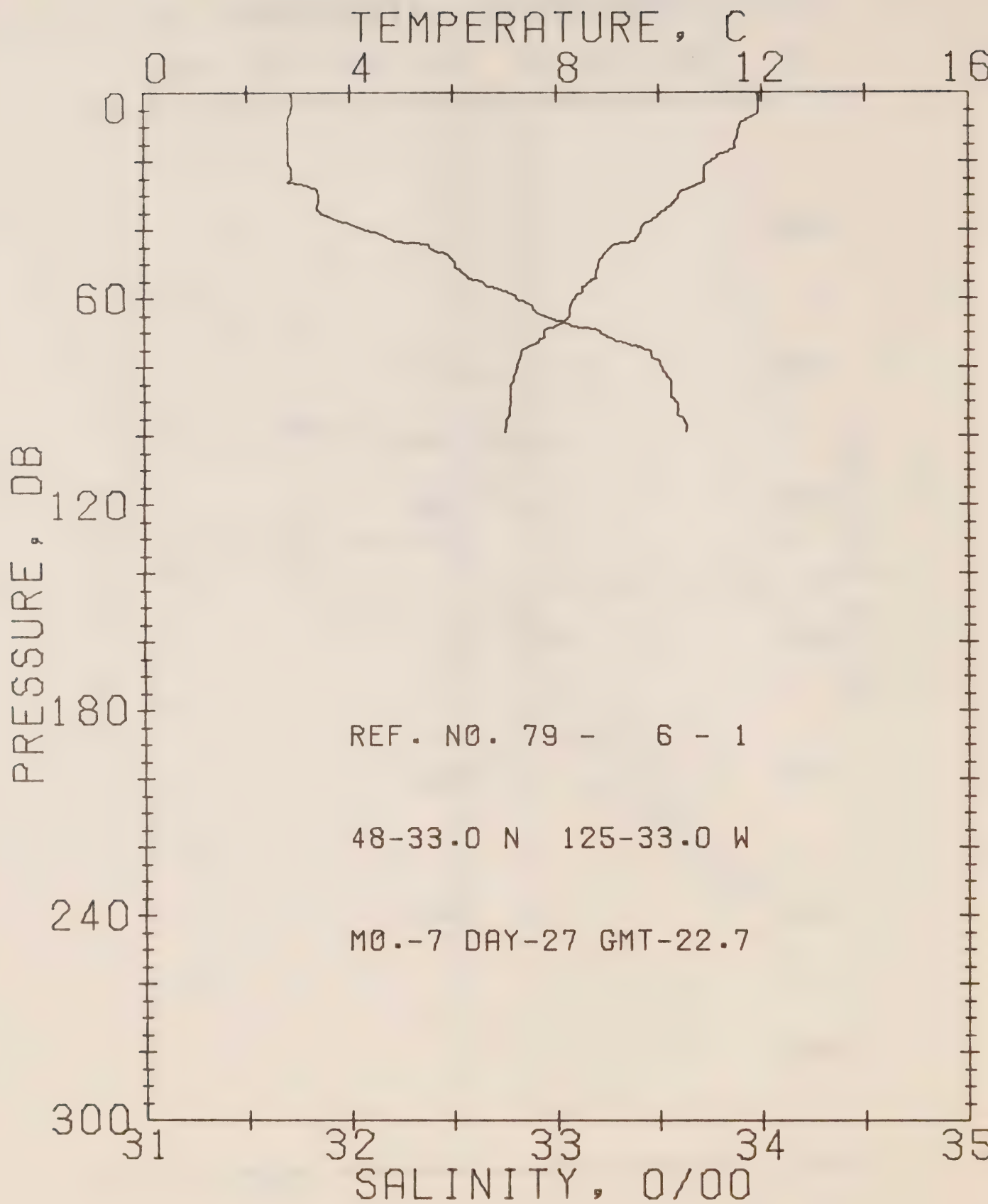


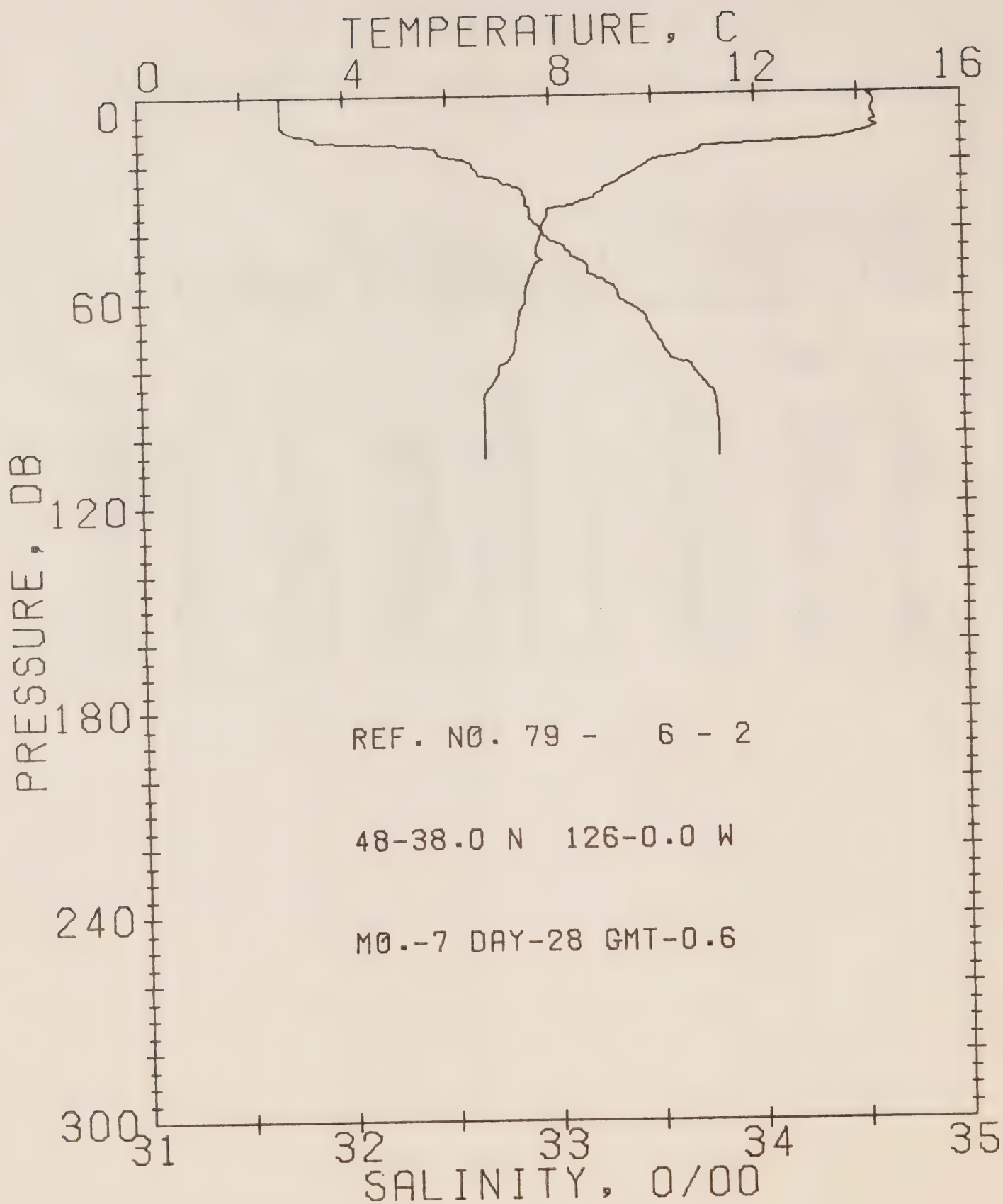
Figure 8. Temperature difference between hydro data and STD.
P-79-6.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 1 DATE 27/ 7/79
 POSITION 48-33.0N, 125-33.0W GMT 22.7 STATION 1
 RESULTS OF STP CAST 90 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

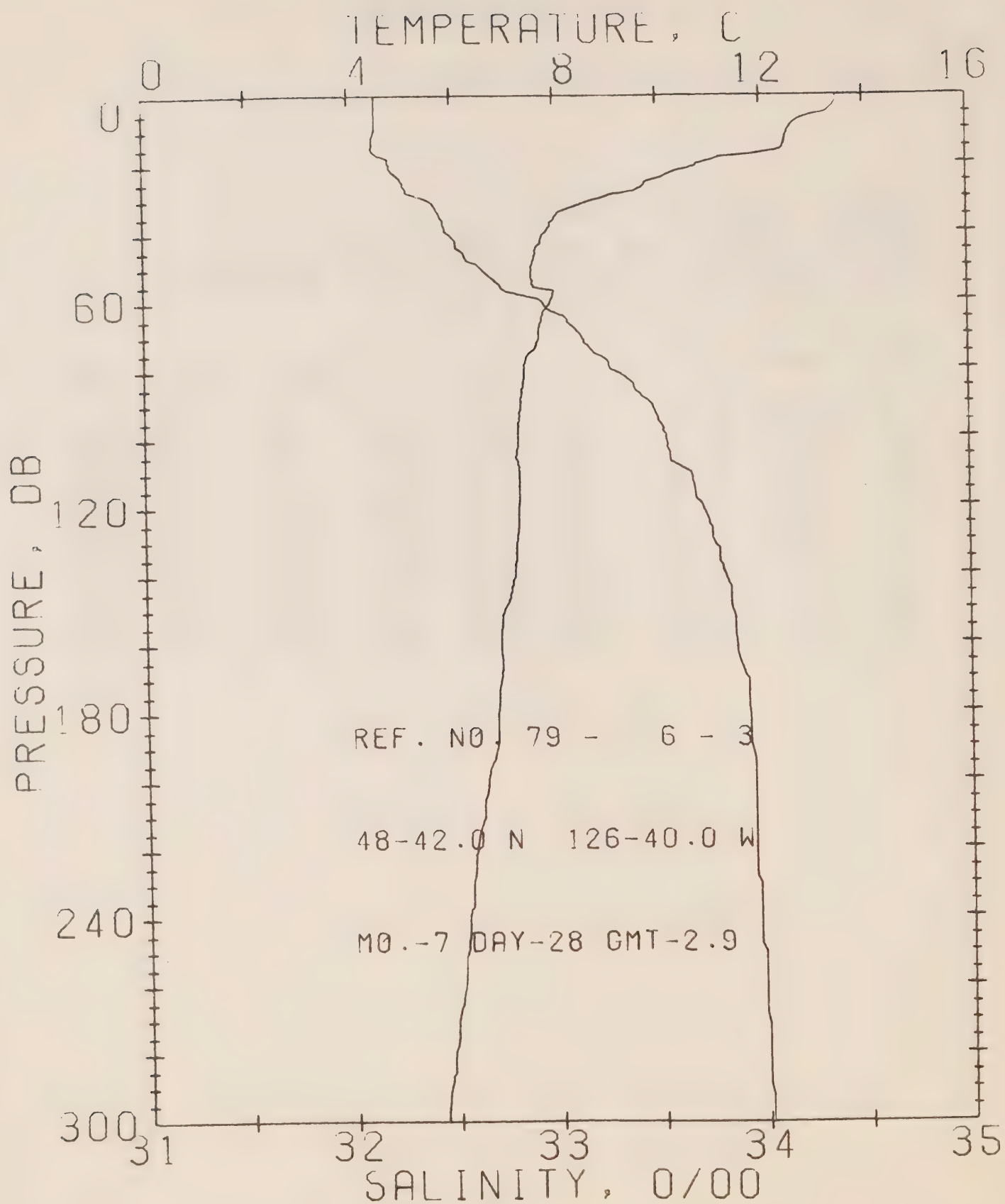
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	11.93	31.71	0	24.07	384.8	.00	.00	1493.
10	11.57	31.70	10	24.13	379.5	.38	.02	1492.
20	11.01	31.70	20	24.23	370.2	.76	.08	1490.
30	10.41	31.85	30	24.45	349.4	1.12	.17	1488.
40	9.66	32.07	40	24.75	321.5	1.46	.29	1486.
50	8.83	32.51	50	25.22	276.5	1.76	.42	1484.
60	8.37	32.81	60	25.52	247.7	2.02	.57	1482.
70	7.77	33.22	70	25.93	209.0	2.25	.73	1481.
80	7.24	33.51	80	26.24	180.2	2.45	.87	1479.
90	7.12	33.58	89	26.31	173.7	2.62	1.03	1479.
100	7.01	33.63	99	26.36	168.8	2.79	1.19	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 2 DATE 28/ 7/79
 POSITION 48-38.0N, 126- .0W GMT .6 STATION 2
 RESULTS OF STP CAST 85 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.29	31.69	0	23.60	430.3	.00	.00	1501.
10	14.37	31.71	10	23.60	430.7	.43	.02	1501.
20	9.93	32.62	20	25.13	284.6	.78	.07	1487.
30	8.85	32.88	30	25.51	249.0	1.04	.14	1484.
40	7.85	32.96	40	25.72	229.0	1.28	.22	1480.
50	7.69	33.18	50	25.91	210.6	1.50	.33	1480.
60	7.50	33.34	60	26.07	196.2	1.70	.44	1480.
70	7.31	33.50	70	26.22	181.8	1.89	.56	1479.
80	6.96	33.68	80	26.41	164.0	2.07	.70	1478.
90	6.68	33.80	89	26.54	152.0	2.22	.83	1478.
100	6.67	33.81	99	26.55	150.9	2.37	.98	1478.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 3

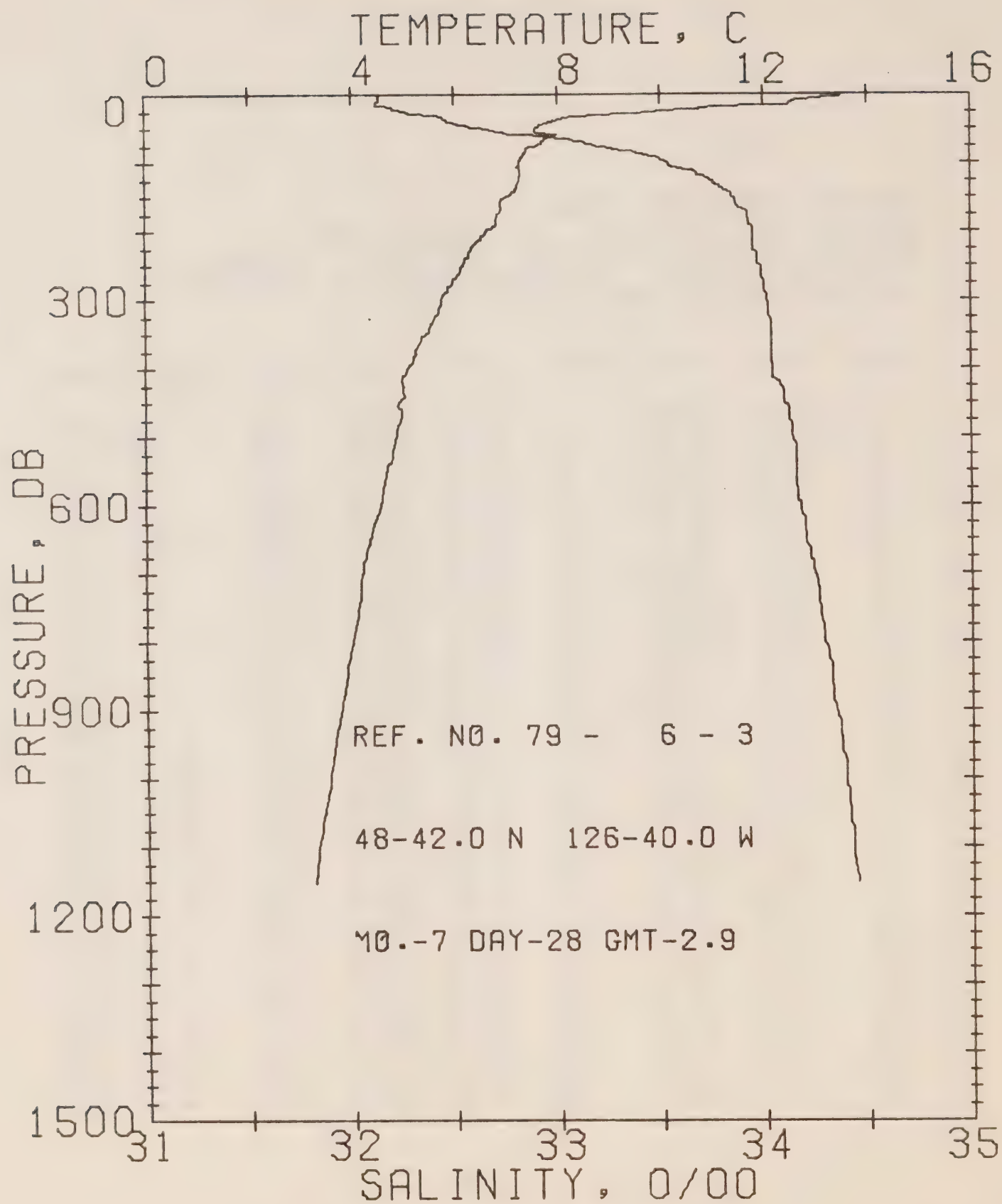
DATE 28/ 7/79

POSITION 48-42.0N, 126-40.0W GMT 2.9 STATION 3

RESULTS OF STP CAST 201 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.49	32.13	0	24.10	382.5	.00	.00	1499.
10	12.55	32.13	10	24.28	365.2	.38	.02	1496.
20	10.78	32.20	20	24.66	329.4	.73	.07	1490.
30	8.92	32.38	30	25.11	287.2	1.04	.15	1484.
40	7.80	32.49	40	25.36	263.2	1.31	.25	1480.
50	7.55	32.64	50	25.51	248.8	1.57	.37	1479.
60	7.93	32.94	60	25.69	231.9	1.81	.50	1481.
70	7.68	33.12	70	25.87	214.8	2.04	.65	1480.
80	7.39	33.27	80	26.03	200.2	2.24	.81	1480.
90	7.31	33.47	89	26.19	184.4	2.44	.97	1480.
100	7.24	33.53	99	26.25	179.2	2.62	1.15	1480.
110	7.28	33.65	109	26.34	171.0	2.79	1.34	1480.
120	7.26	33.70	119	26.39	166.8	2.96	1.54	1480.
130	7.22	33.76	129	26.43	162.3	3.13	1.75	1480.
140	7.17	33.82	139	26.48	157.7	3.29	1.97	1480.
150	6.97	33.85	149	26.54	152.5	3.44	2.20	1480.
160	6.88	33.87	159	26.57	150.2	3.59	2.43	1480.
170	6.87	33.92	169	26.61	146.3	3.74	2.68	1480.
180	6.82	33.93	179	26.62	145.3	3.89	2.95	1480.
190	6.77	33.93	189	26.63	144.3	4.03	3.22	1480.
200	6.60	33.95	199	26.67	141.0	4.17	3.50	1479.
210	6.50	33.95	209	26.68	139.9	4.32	3.79	1479.
220	6.36	33.95	218	26.70	138.1	4.45	4.10	1479.
230	6.27	33.97	228	26.73	135.6	4.59	4.41	1479.
240	6.20	33.97	238	26.74	134.9	4.73	4.74	1478.
250	6.16	33.99	248	26.76	133.0	4.86	5.07	1478.
260	6.08	33.99	258	26.77	132.1	4.99	5.42	1478.
270	5.97	34.00	268	26.79	130.4	5.13	5.77	1478.
280	5.88	34.00	278	26.80	129.2	5.26	6.14	1478.
290	5.80	34.00	288	26.81	128.0	5.38	6.51	1478.
300	5.74	34.01	298	26.83	126.9	5.51	6.89	1478.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 3

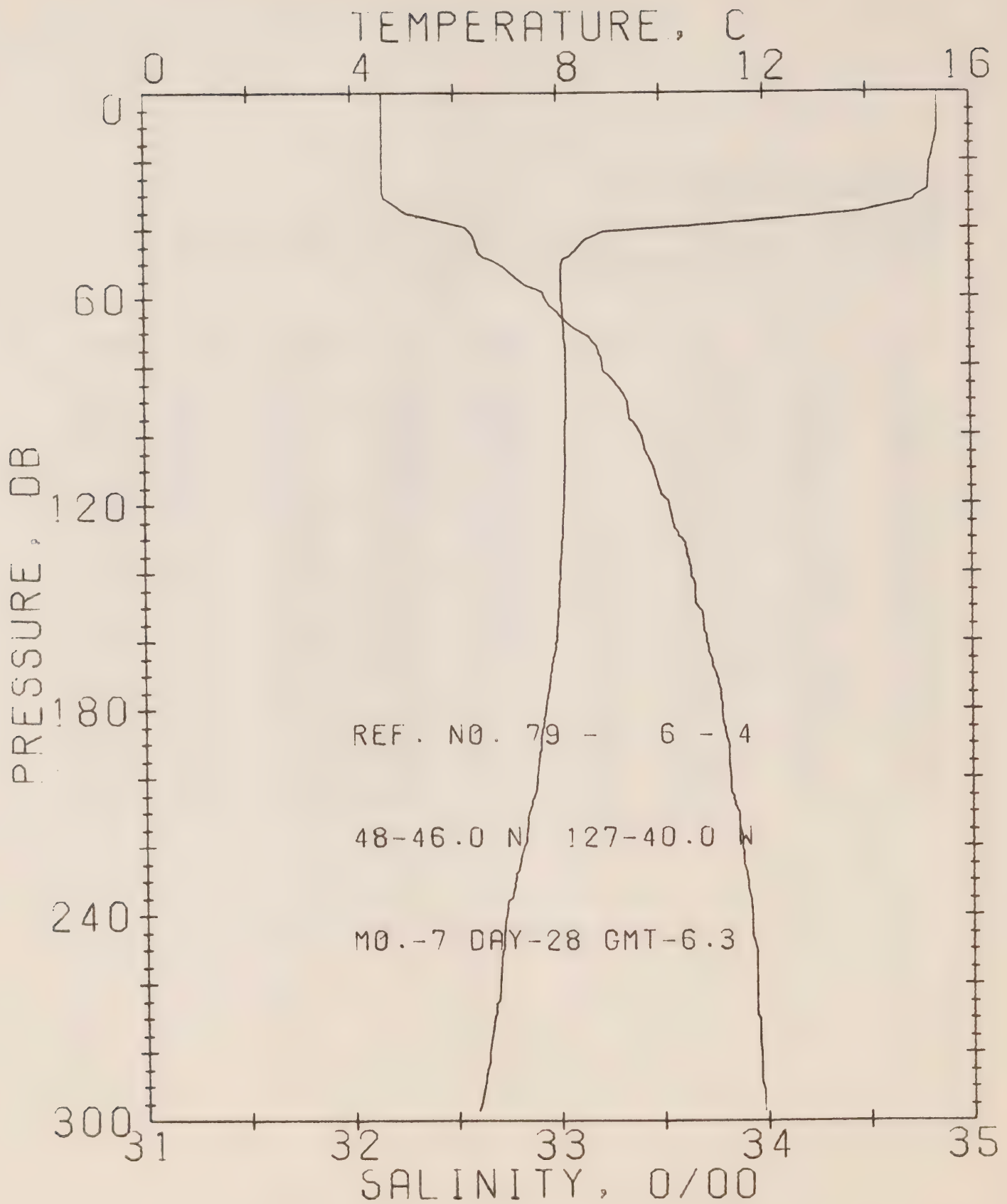
DATE 28/ 7/79

POSITION 48-42.0N, 126-40.0W GMT 2.9 STATION 3

RESULTS OF STP CAST 362 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.49	32.13	0	24.10	382.5	.00	.00	1499.
10	12.55	32.13	10	24.28	365.2	.38	.02	1496.
20	10.78	32.20	20	24.66	329.4	.73	.07	1490.
30	8.92	32.38	30	25.11	287.2	1.04	.15	1484.
50	7.55	32.64	50	25.51	248.8	1.57	.37	1479.
75	7.49	33.19	75	25.95	207.5	2.14	.73	1480.
100	7.24	33.53	99	26.25	179.2	2.62	1.15	1480.
125	7.24	33.74	124	26.42	164.0	3.05	1.64	1480.
150	6.97	33.85	149	26.54	152.5	3.44	2.20	1480.
175	6.84	33.92	174	26.61	145.9	3.82	2.81	1480.
200	6.60	33.95	199	26.67	141.0	4.17	3.50	1479.
225	6.31	33.95	223	26.71	137.6	4.52	4.25	1479.
250	6.16	33.99	248	26.76	133.0	4.86	5.07	1478.
300	5.74	34.01	298	26.83	126.9	5.51	6.89	1478.
400	5.08	34.04	397	26.93	117.9	6.73	11.25	1477.
500	4.85	34.13	496	27.03	109.1	7.86	16.41	1477.
600	4.53	34.17	595	27.09	103.8	8.92	22.37	1478.
800	3.98	34.29	793	27.25	90.2	10.85	36.04	1479.
1000	3.52	34.39	991	27.37	79.2	12.53	51.45	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 4

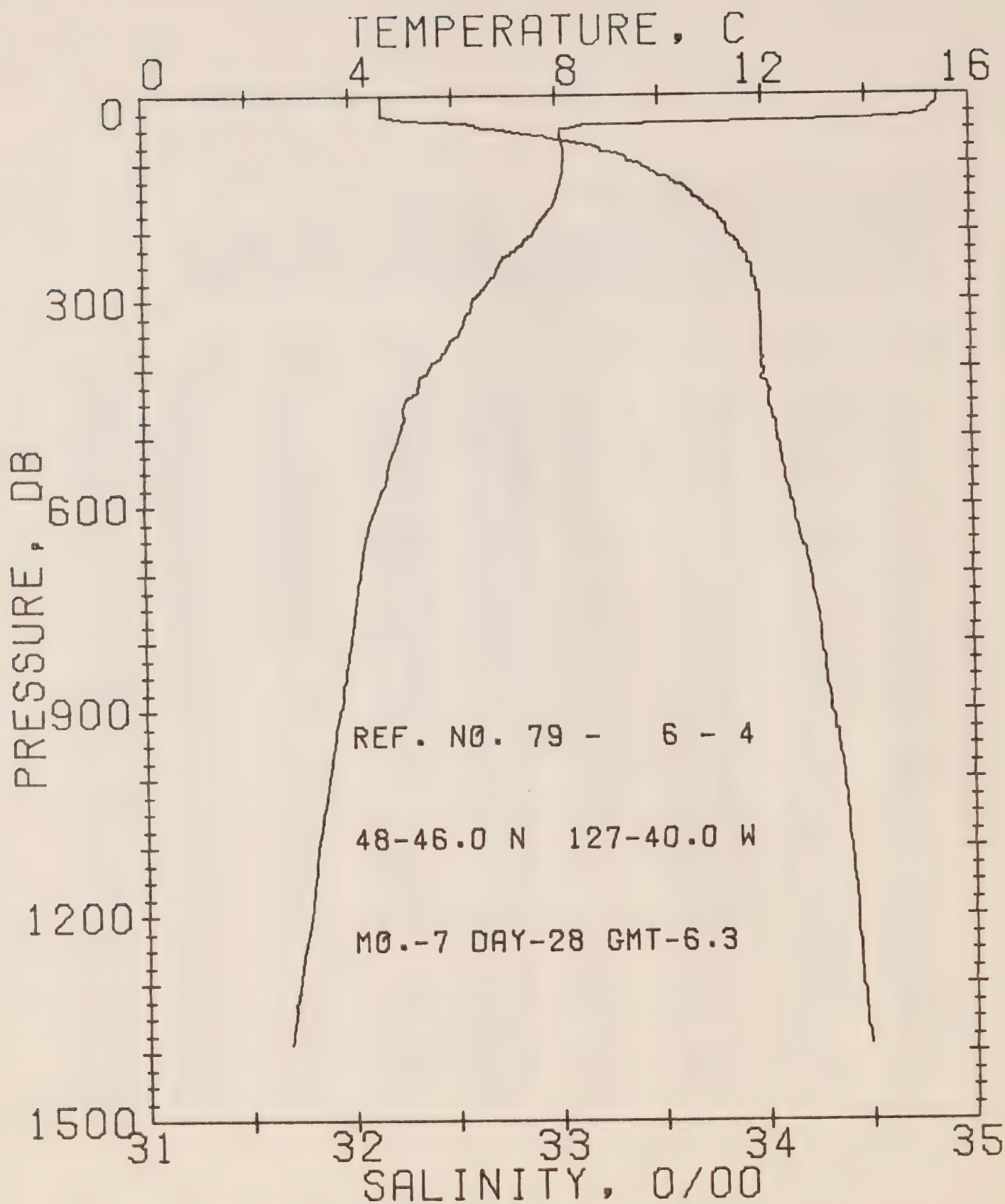
DATE 28/ 7/79

POSITION 48-46.0N, 127-40.0W GMT 6.3 STATION 4

RESULTS OF STP CAST 143 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.38	32.15	0	23.72	418.7	.00	.00	1505.
10	15.38	32.15	10	23.72	419.0	.42	.02	1505.
20	15.26	32.15	20	23.74	416.9	.84	.09	1505.
30	15.09	32.15	30	23.79	413.0	1.25	.19	1505.
40	9.72	32.57	40	25.12	285.7	1.62	.32	1487.
50	8.11	32.71	50	25.49	251.3	1.88	.44	1481.
60	8.09	32.94	60	25.67	233.9	2.12	.58	1482.
70	8.13	33.11	70	25.80	221.9	2.35	.73	1482.
80	8.15	33.22	80	25.88	214.7	2.57	.89	1482.
90	8.15	33.34	90	25.97	205.7	2.78	1.08	1483.
100	8.14	33.41	99	26.03	200.6	2.98	1.27	1483.
110	8.13	33.46	109	26.07	196.5	3.18	1.49	1483.
120	8.11	33.53	119	26.13	191.3	3.38	1.71	1483.
130	8.07	33.60	129	26.19	186.0	3.57	1.96	1483.
140	8.03	33.64	139	26.22	182.7	3.75	2.21	1484.
150	8.00	33.67	149	26.25	180.1	3.93	2.48	1484.
160	7.94	33.71	159	26.29	176.5	4.11	2.76	1484.
170	7.82	33.76	169	26.35	171.2	4.28	3.05	1483.
180	7.72	33.79	179	26.39	167.7	4.45	3.35	1483.
190	7.62	33.82	189	26.43	164.3	4.62	3.66	1483.
200	7.55	33.83	199	26.44	162.7	4.78	3.99	1483.
210	7.40	33.87	209	26.50	157.8	4.94	4.33	1483.
220	7.29	33.88	219	26.52	155.7	5.10	4.67	1482.
230	7.11	33.91	228	26.57	151.2	5.25	5.02	1482.
240	6.93	33.93	238	26.61	147.4	5.40	5.38	1481.
250	6.87	33.95	248	26.63	145.2	5.55	5.75	1481.
260	6.80	33.95	258	26.64	144.5	5.69	6.12	1481.
270	6.69	33.96	268	26.66	142.4	5.84	6.51	1481.
280	6.58	33.97	278	26.69	140.3	5.98	6.91	1481.
290	6.50	33.97	288	26.70	139.0	6.12	7.31	1480.
300	6.37	33.98	298	26.72	137.1	6.26	7.73	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 4

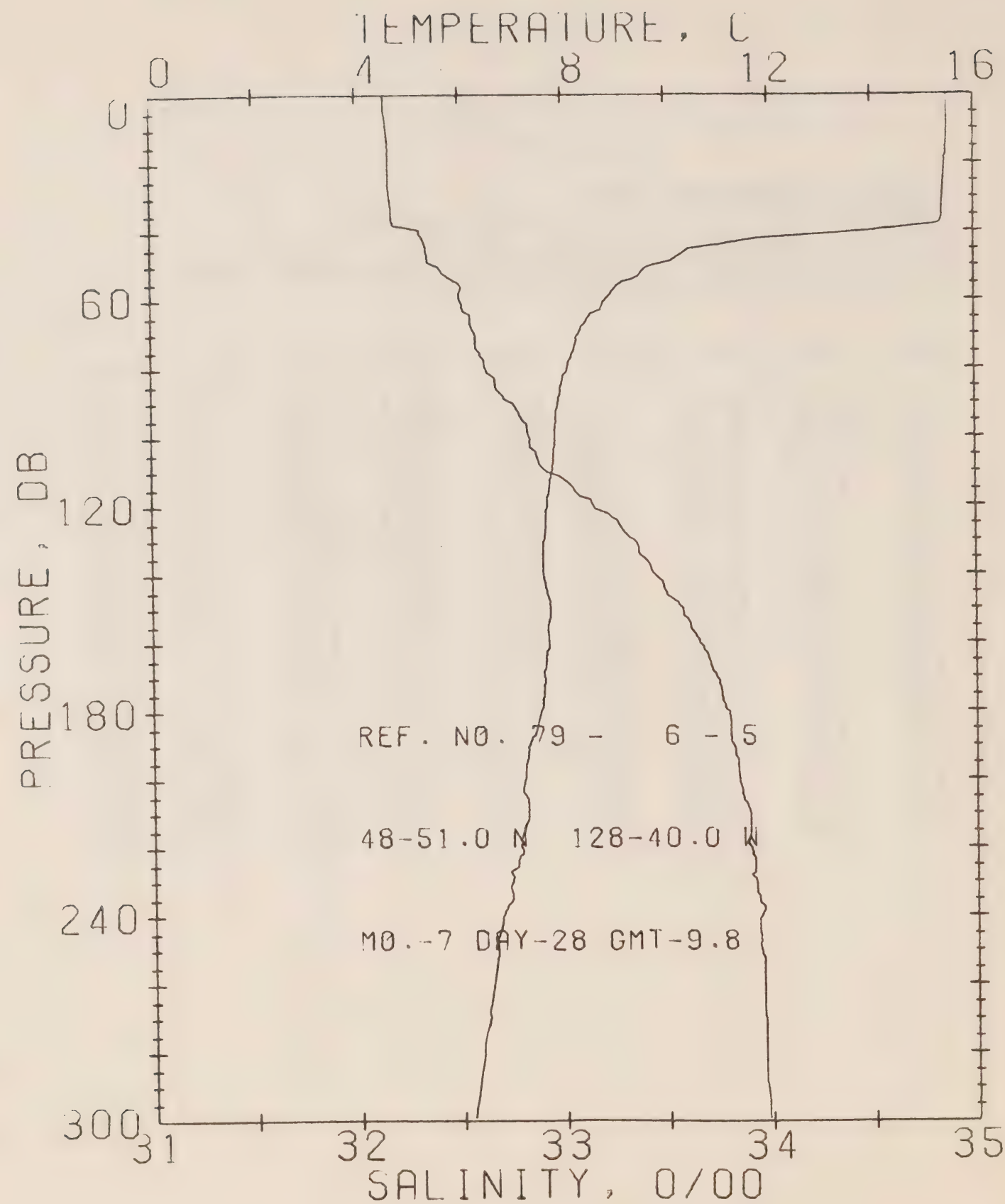
DATE 28/ 7/79

POSITION 48-46.0N, 127-40.0W GMT 6.3 STATION 4

RESULTS OF STP CAST 338 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.38	32.15	0	23.72	418.7	.00	.00	1505.
10	15.38	32.15	10	23.72	419.0	.42	.02	1505.
20	15.26	32.15	20	23.74	416.9	.84	.09	1505.
30	15.09	32.15	30	23.79	413.0	1.25	.19	1505.
50	8.11	32.71	50	25.49	251.3	1.88	.44	1481.
75	8.15	33.19	75	25.86	216.3	2.46	.81	1482.
100	8.14	33.41	99	26.03	200.6	2.98	1.27	1483.
125	8.10	33.55	124	26.15	189.8	3.47	1.83	1483.
150	8.00	33.67	149	26.25	180.1	3.93	2.48	1484.
175	7.78	33.78	174	26.37	169.2	4.37	3.20	1483.
200	7.55	33.83	199	26.44	162.7	4.78	3.99	1483.
225	7.20	33.89	224	26.54	153.8	5.18	4.85	1482.
250	6.87	33.95	248	26.63	145.2	5.55	5.75	1481.
300	6.37	33.98	298	26.72	137.1	6.26	7.73	1480.
400	5.48	34.00	397	26.85	125.7	7.58	12.45	1478.
500	4.89	34.06	496	26.97	115.2	8.78	17.94	1477.
600	4.44	34.13	595	27.07	105.8	9.89	24.15	1477.
800	3.94	34.26	793	27.23	91.8	11.84	38.03	1479.
1000	3.49	34.37	991	27.36	80.4	13.56	53.79	1480.
1200	3.13	34.43	1188	27.44	73.1	15.09	70.90	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 5

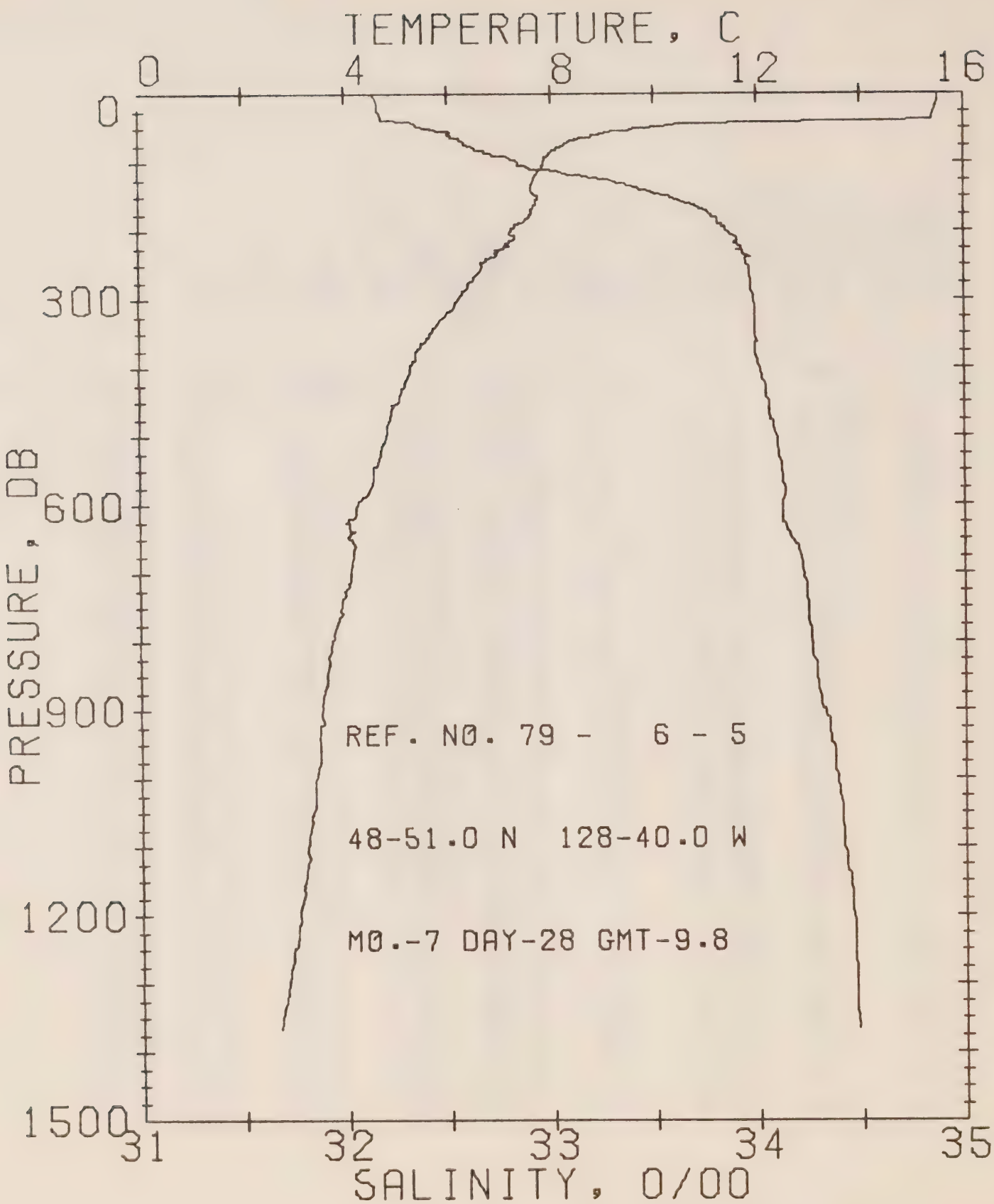
DATE 28/ 7/79

POSITION 48-51.0N, 128-40.0W GMT 9.8 STATION 5

RESULTS OF STP CAST 180 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.49	32.14	0	23.69	421.7	.00	.00	1505.
10	15.48	32.15	10	23.70	421.1	.42	.02	1506.
20	15.44	32.16	20	23.71	419.8	.84	.09	1506.
30	15.40	32.17	30	23.73	418.8	1.26	.19	1506.
40	13.93	32.31	40	24.15	378.8	1.67	.34	1501.
50	9.77	32.40	50	24.99	299.0	2.00	.49	1487.
60	8.85	32.51	60	25.21	277.4	2.28	.65	1484.
70	8.31	32.58	70	25.35	264.1	2.56	.83	1482.
80	8.09	32.62	80	25.42	257.8	2.82	1.03	1481.
90	7.91	32.76	90	25.55	245.4	3.07	1.25	1481.
100	7.85	32.84	99	25.62	238.8	3.31	1.48	1481.
110	7.78	32.92	109	25.70	232.0	3.55	1.73	1481.
120	7.68	33.14	119	25.89	214.3	3.77	1.99	1481.
130	7.62	33.35	129	26.06	198.2	3.97	2.25	1481.
140	7.60	33.44	139	26.13	191.4	4.17	2.52	1482.
150	7.72	33.58	149	26.22	182.8	4.36	2.80	1482.
160	7.70	33.66	159	26.29	176.8	4.54	3.08	1483.
170	7.60	33.74	169	26.37	169.6	4.71	3.37	1483.
180	7.55	33.80	179	26.42	164.6	4.88	3.67	1483.
190	7.31	33.82	189	26.47	160.0	5.04	3.98	1482.
200	7.23	33.85	199	26.50	156.8	5.20	4.29	1482.
210	7.27	33.90	209	26.54	153.8	5.35	4.62	1482.
220	7.13	33.90	219	26.56	152.0	5.51	4.95	1482.
230	6.97	33.93	229	26.60	147.8	5.66	5.30	1481.
240	6.79	33.95	238	26.64	144.0	5.80	5.65	1481.
250	6.66	33.95	248	26.66	142.4	5.94	6.00	1480.
260	6.57	33.96	258	26.68	140.7	6.09	6.37	1480.
270	6.50	33.97	268	26.70	139.1	6.23	6.75	1480.
280	6.37	33.97	278	26.71	137.6	6.36	7.14	1480.
290	6.27	33.97	288	26.73	136.2	6.50	7.54	1480.
300	6.18	33.96	298	26.75	134.7	6.64	7.94	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 5

DATE 28/ 7/79

POSITION 48-51.0N, 128-40.0W

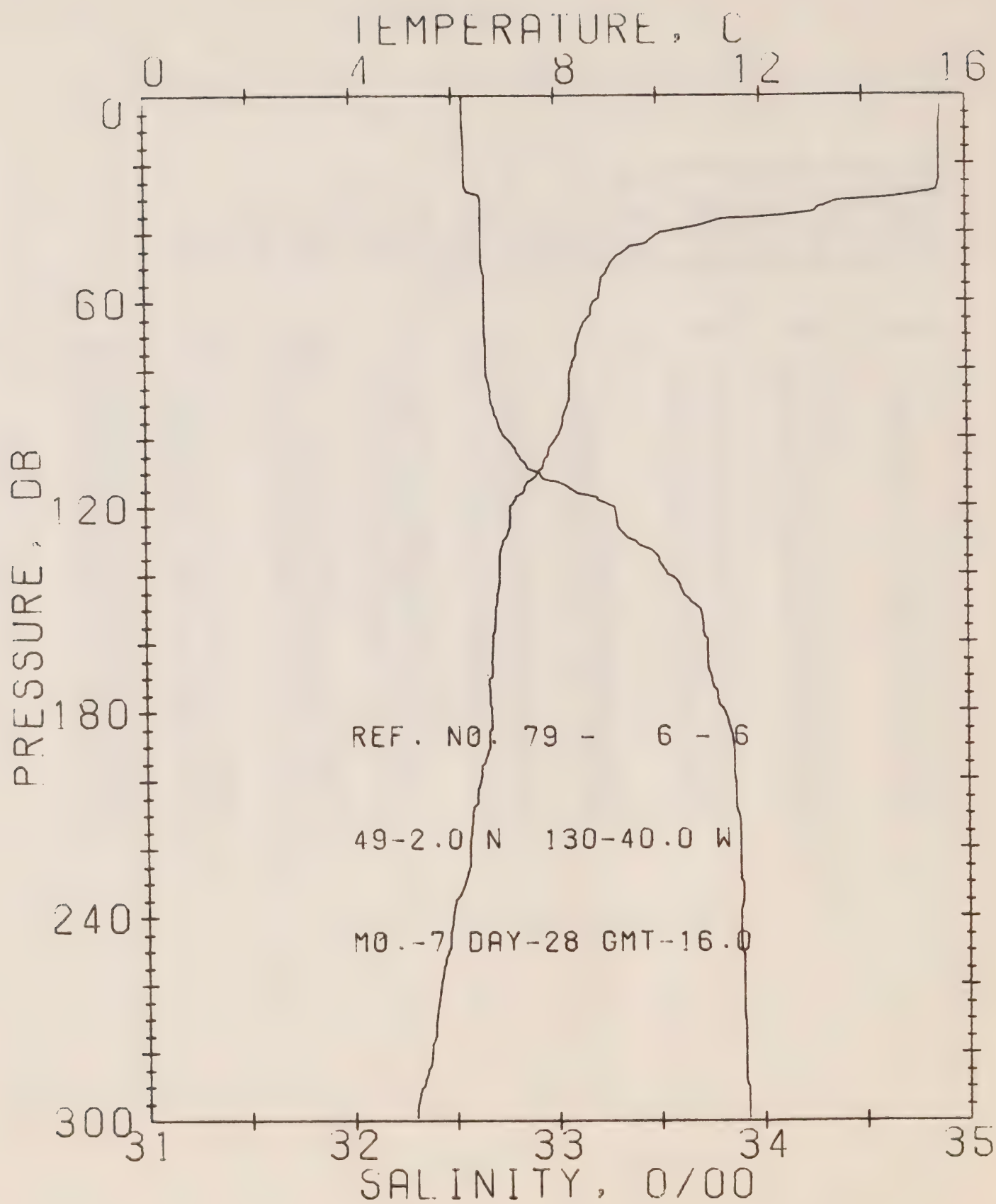
GMT 9.8

STATION 5

RESULTS OF STP CAST 410 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.49	32.14	0	23.69	421.7	.00	.00	1505.
10	15.48	32.15	10	23.70	421.1	.42	.02	1506.
20	15.44	32.16	20	23.71	419.8	.84	.09	1506.
30	15.40	32.17	30	23.73	418.8	1.26	.19	1506.
50	9.77	32.40	50	24.99	299.0	2.00	.49	1487.
75	8.20	32.60	75	25.39	261.1	2.69	.92	1482.
100	7.85	32.84	99	25.62	238.8	3.31	1.48	1481.
125	7.65	33.27	124	25.99	204.5	3.87	2.12	1481.
150	7.72	33.58	149	26.22	182.8	4.36	2.80	1482.
175	7.60	33.77	174	26.39	167.7	4.79	3.52	1483.
200	7.23	33.85	199	26.50	156.8	5.20	4.29	1482.
225	7.07	33.92	224	26.58	149.8	5.58	5.12	1482.
250	6.66	33.95	248	26.66	142.4	5.94	6.00	1480.
300	6.18	33.98	298	26.75	134.7	6.64	7.94	1479.
400	5.25	34.01	397	26.88	122.4	7.92	12.50	1477.
500	4.78	34.09	496	27.00	112.0	9.09	17.86	1477.
600	4.21	34.12	595	27.09	103.8	10.17	23.90	1476.
800	3.71	34.26	793	27.25	89.7	12.09	37.60	1478.
1000	3.37	34.38	991	27.38	78.3	13.77	52.95	1480.
1200	3.05	34.45	1188	27.47	70.4	15.26	69.63	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 6

DATE 28/ 7/79

POSITION 49- 2.0N, 130-40.0W

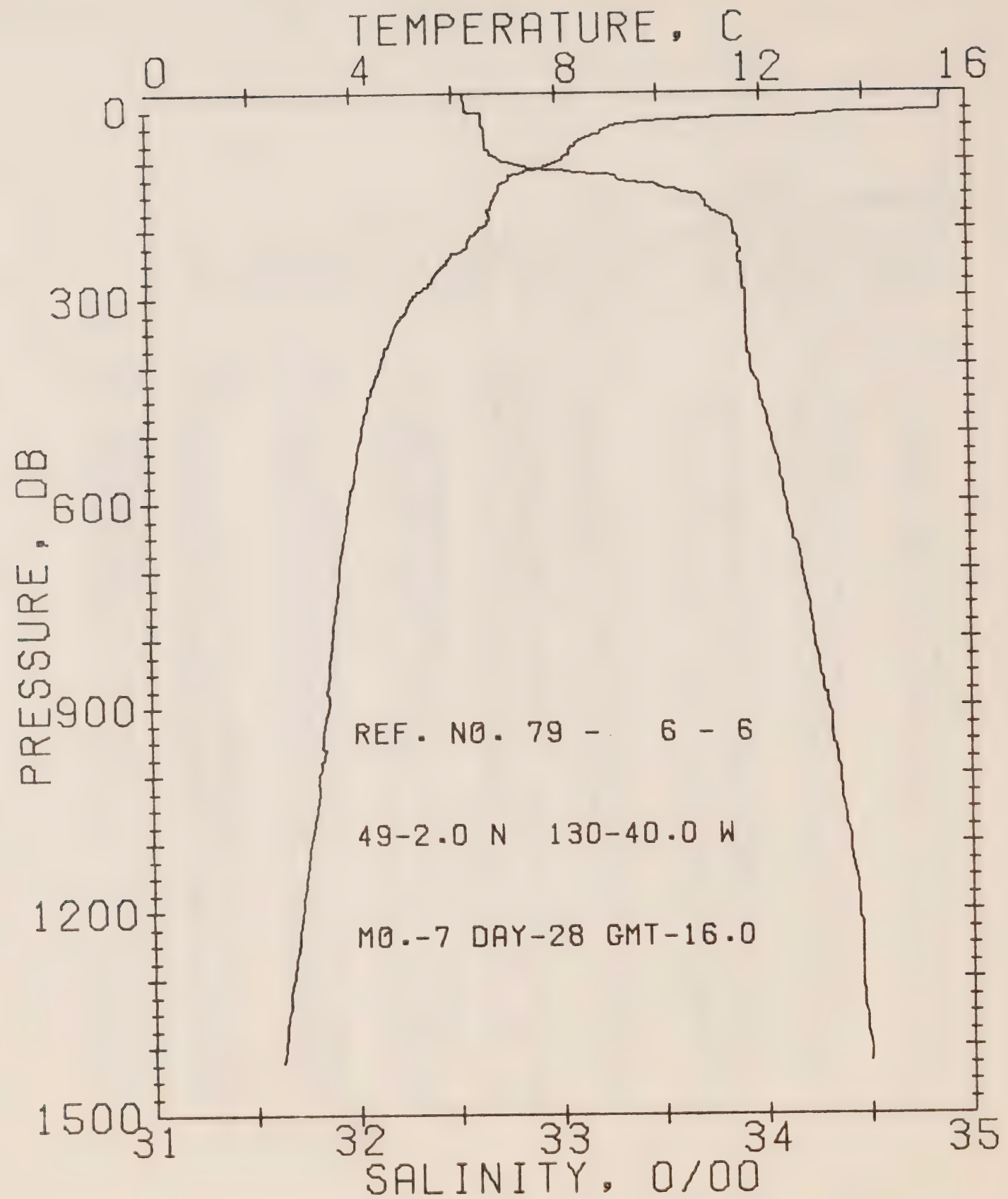
GMT 16.0

STATION 6

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.51	32.55	0	24.00	392.2	.00	.00	1506.
10	15.50	32.55	10	24.00	392.0	.39	.02	1506.
20	15.50	32.56	20	24.01	391.8	.78	.08	1506.
30	14.54	32.64	30	24.28	366.5	1.17	.18	1504.
40	10.05	32.64	40	25.13	285.4	1.49	.29	1488.
50	9.05	32.64	50	25.29	270.0	1.77	.42	1485.
60	8.75	32.65	60	25.34	265.1	2.04	.57	1484.
70	8.46	32.65	70	25.39	260.8	2.30	.74	1483.
80	8.30	32.66	80	25.42	258.2	2.56	.94	1482.
90	8.24	32.68	90	25.45	255.6	2.82	1.16	1482.
100	7.99	32.76	99	25.54	246.7	3.07	1.41	1482.
110	7.63	32.92	109	25.72	230.0	3.31	1.66	1481.
120	7.09	33.29	119	26.08	195.3	3.52	1.92	1479.
130	6.96	33.39	129	26.18	186.3	3.72	2.16	1479.
140	6.89	33.54	139	26.31	174.4	3.90	2.41	1479.
150	6.81	33.70	149	26.44	161.6	4.06	2.66	1479.
160	6.74	33.73	159	26.48	158.6	4.22	2.91	1479.
170	6.71	33.75	169	26.50	156.8	4.38	3.18	1479.
180	6.71	33.82	179	26.55	152.2	4.54	3.45	1479.
190	6.67	33.86	189	26.59	148.6	4.69	3.74	1479.
200	6.50	33.86	199	26.61	146.0	4.83	4.03	1479.
210	6.33	33.88	209	26.65	142.8	4.98	4.33	1478.
220	6.27	33.89	219	26.66	141.4	5.12	4.64	1478.
230	6.16	33.90	228	26.69	139.5	5.26	4.96	1478.
240	5.93	33.89	238	26.71	137.5	5.40	5.30	1477.
250	5.83	33.89	248	26.72	136.0	5.54	5.64	1477.
260	5.67	33.90	258	26.75	133.8	5.67	5.99	1477.
270	5.59	33.90	268	26.76	132.5	5.80	6.35	1476.
280	5.49	33.91	278	26.78	131.1	5.94	6.72	1476.
290	5.34	33.92	288	26.80	128.7	6.07	7.09	1476.
300	5.18	33.92	298	26.82	126.9	6.19	7.48	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 6

DATE 28/ 7/79

POSITION 49- 2.0N, 130-40.0W

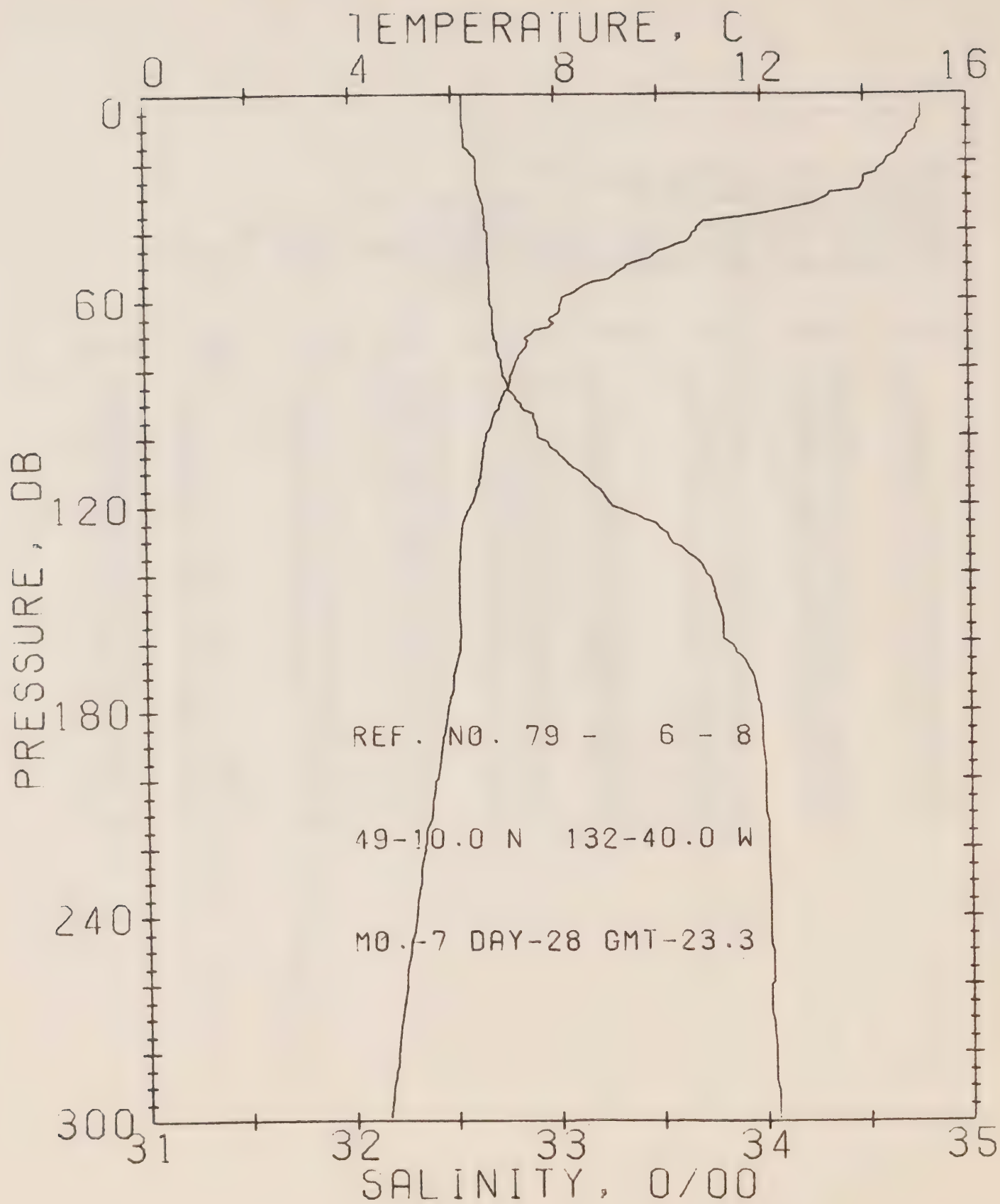
GMT 16.0

STATION 6

RESULTS OF STP CAST 321 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

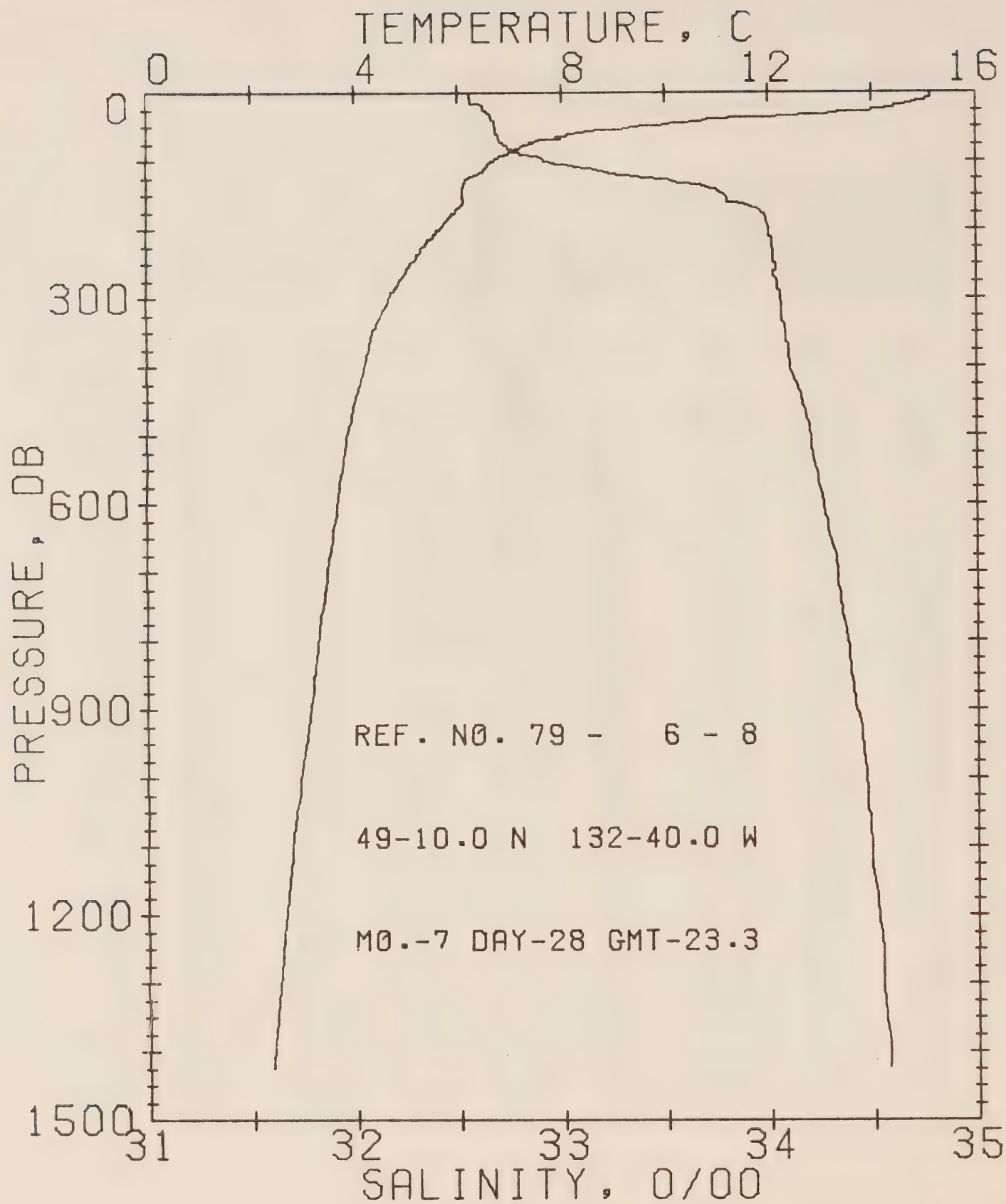
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.51	32.55	0	24.00	392.2	.00	.00	1506.
10	15.50	32.55	10	24.00	392.0	.39	.02	1506.
20	15.50	32.56	20	24.01	391.8	.78	.08	1506.
30	14.54	32.64	30	24.28	366.5	1.17	.18	1504.
50	9.05	32.64	50	25.29	270.0	1.77	.42	1485.
75	8.40	32.66	75	25.40	259.5	2.43	.84	1483.
100	7.99	32.76	99	25.54	246.7	3.07	1.41	1482.
125	7.09	33.30	124	26.09	194.8	3.62	2.04	1479.
150	6.81	33.70	149	26.44	161.6	4.06	2.66	1479.
175	6.69	33.78	174	26.52	154.4	4.46	3.31	1479.
200	6.50	33.86	199	26.61	146.0	4.83	4.03	1479.
225	6.26	33.89	224	26.67	141.4	5.19	4.80	1478.
250	5.83	33.89	248	26.72	136.0	5.54	5.64	1477.
300	5.18	33.92	298	26.82	126.9	6.19	7.48	1475.
400	4.53	33.94	397	26.91	118.9	7.42	11.85	1474.
500	4.14	34.04	496	27.03	108.4	8.55	17.03	1474.
600	3.89	34.10	595	27.11	101.4	9.60	22.90	1475.
800	3.53	34.24	793	27.25	89.2	11.49	36.36	1477.
1000	3.23	34.36	991	27.38	78.1	13.17	51.68	1479.
1200	2.89	34.45	1188	27.48	68.9	14.64	68.14	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 8 DATE 28/ 7/79
 POSITION 49-10.0N, 132-40.0W GMT 23.3 STATION 7
 RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.12	32.55	0	24.08	384.1	.00	.00	1505.
10	15.01	32.56	10	24.11	381.3	.38	.02	1505.
20	14.42	32.62	20	24.29	365.2	.76	.08	1503.
30	13.30	32.64	30	24.53	342.2	1.11	.17	1499.
40	10.74	32.67	40	25.03	294.5	1.43	.28	1491.
50	9.39	32.68	50	25.27	272.3	1.72	.41	1486.
60	8.13	32.68	60	25.46	253.9	1.98	.56	1481.
70	7.53	32.70	70	25.56	244.4	2.23	.72	1479.
80	7.17	32.73	80	25.64	237.1	2.47	.91	1478.
90	6.91	32.83	89	25.75	226.8	2.70	1.11	1477.
100	6.62	32.91	99	25.85	217.3	2.93	1.32	1476.
110	6.53	33.11	109	26.02	201.4	3.13	1.55	1476.
120	6.32	33.27	119	26.17	197.0	3.33	1.77	1476.
130	6.12	33.55	129	26.42	163.8	3.50	1.99	1476.
140	6.09	33.72	139	26.55	150.8	3.66	2.21	1476.
150	6.09	33.79	149	26.61	145.7	3.80	2.43	1476.
160	6.09	33.83	159	26.64	142.9	3.95	2.66	1476.
170	5.96	33.95	169	26.75	132.5	4.09	2.89	1476.
180	5.82	33.98	179	26.79	128.4	4.22	3.12	1476.
190	5.71	33.99	189	26.82	126.4	4.35	3.36	1476.
200	5.64	34.00	199	26.83	125.2	4.47	3.61	1476.
210	5.50	34.00	209	26.85	123.5	4.59	3.87	1475.
220	5.37	34.01	219	26.87	121.5	4.72	4.14	1475.
230	5.27	34.02	228	26.89	119.9	4.84	4.41	1475.
240	5.19	34.02	238	26.90	118.8	4.96	4.70	1474.
250	5.06	34.03	248	26.92	116.8	5.08	5.00	1474.
260	4.98	34.02	258	26.92	116.7	5.19	5.30	1474.
270	4.89	34.03	268	26.94	115.3	5.31	5.61	1474.
280	4.81	34.04	278	26.96	113.5	5.42	5.93	1474.
290	4.71	34.05	288	26.97	112.0	5.54	6.26	1473.
300	4.64	34.05	298	26.99	111.1	5.65	6.60	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 8

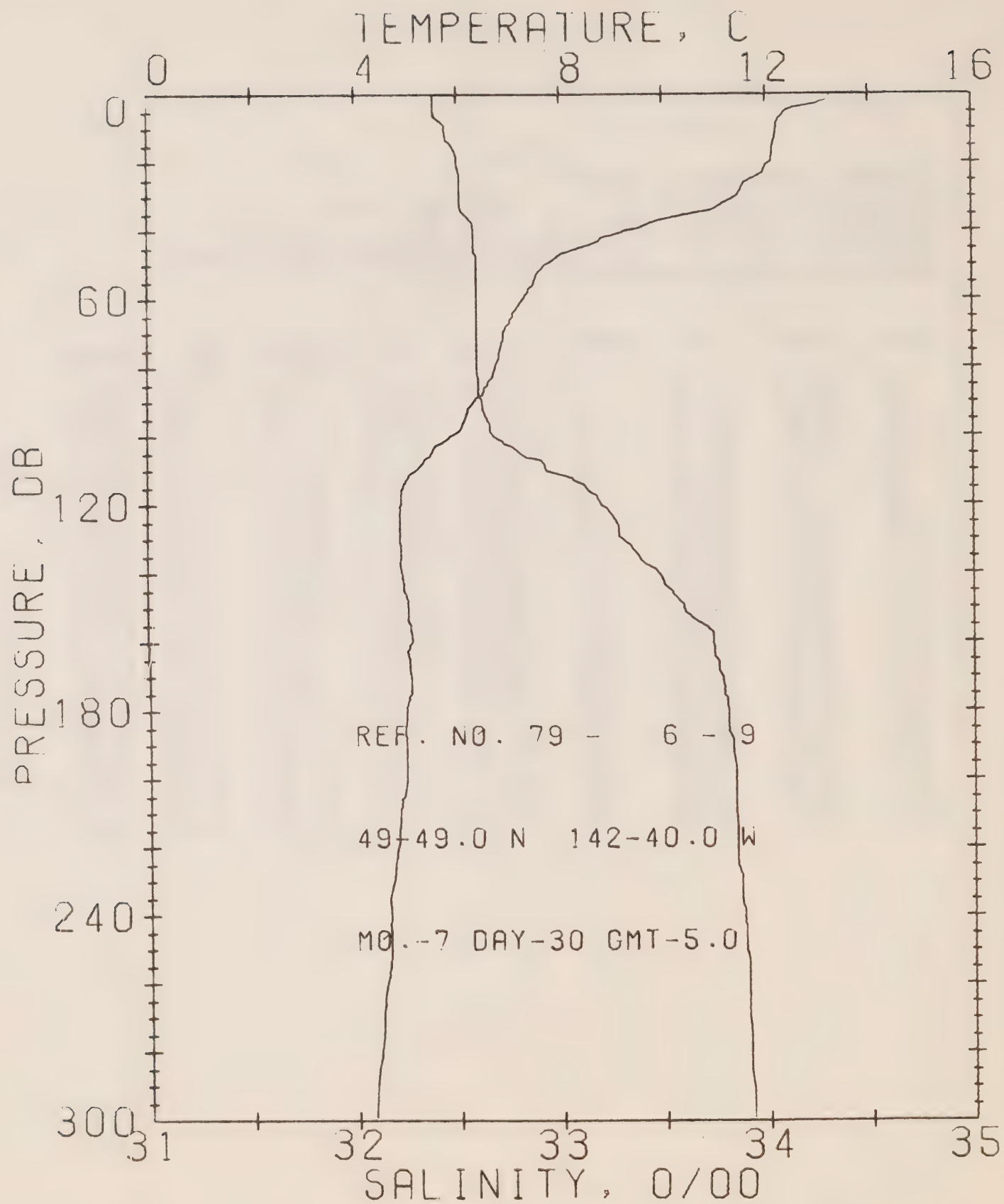
DATE 28/ 7/79

POSITION 49-10.0N, 132-40.0W GMT 23.3 STATION 7

RESULTS OF STP CAST 317 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.12	32.55	0	24.08	384.1	.00	.00	1505.
10	15.01	32.56	10	24.11	381.3	.38	.02	1505.
20	14.42	32.62	20	24.29	365.2	.76	.08	1503.
30	13.30	32.64	30	24.53	342.2	1.11	.17	1499.
50	9.39	32.68	50	25.27	272.3	1.72	.41	1486.
75	7.35	32.71	75	25.60	240.9	2.35	.81	1479.
100	6.62	32.91	99	25.85	217.3	2.93	1.32	1476.
125	6.16	33.48	124	26.36	169.4	3.42	1.89	1476.
150	6.09	33.79	149	26.61	145.7	3.80	2.43	1476.
175	5.91	33.97	174	26.77	130.4	4.15	3.00	1476.
200	5.64	34.00	199	26.83	125.2	4.47	3.61	1476.
225	5.30	34.01	223	26.88	120.7	4.78	4.28	1475.
250	5.06	34.03	248	26.92	116.8	5.08	5.00	1474.
300	4.64	34.05	298	26.99	111.1	5.65	6.60	1473.
400	4.17	34.10	397	27.08	103.0	6.71	10.39	1473.
500	3.82	34.20	496	27.19	93.0	7.69	14.86	1473.
600	3.64	34.26	595	27.26	87.2	8.59	19.93	1474.
800	3.26	34.38	793	27.39	75.9	10.22	31.47	1476.
1000	2.92	34.46	990	27.48	67.3	11.65	44.57	1478.
1200	2.64	34.52	1188	27.55	61.2	12.93	58.95	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 9

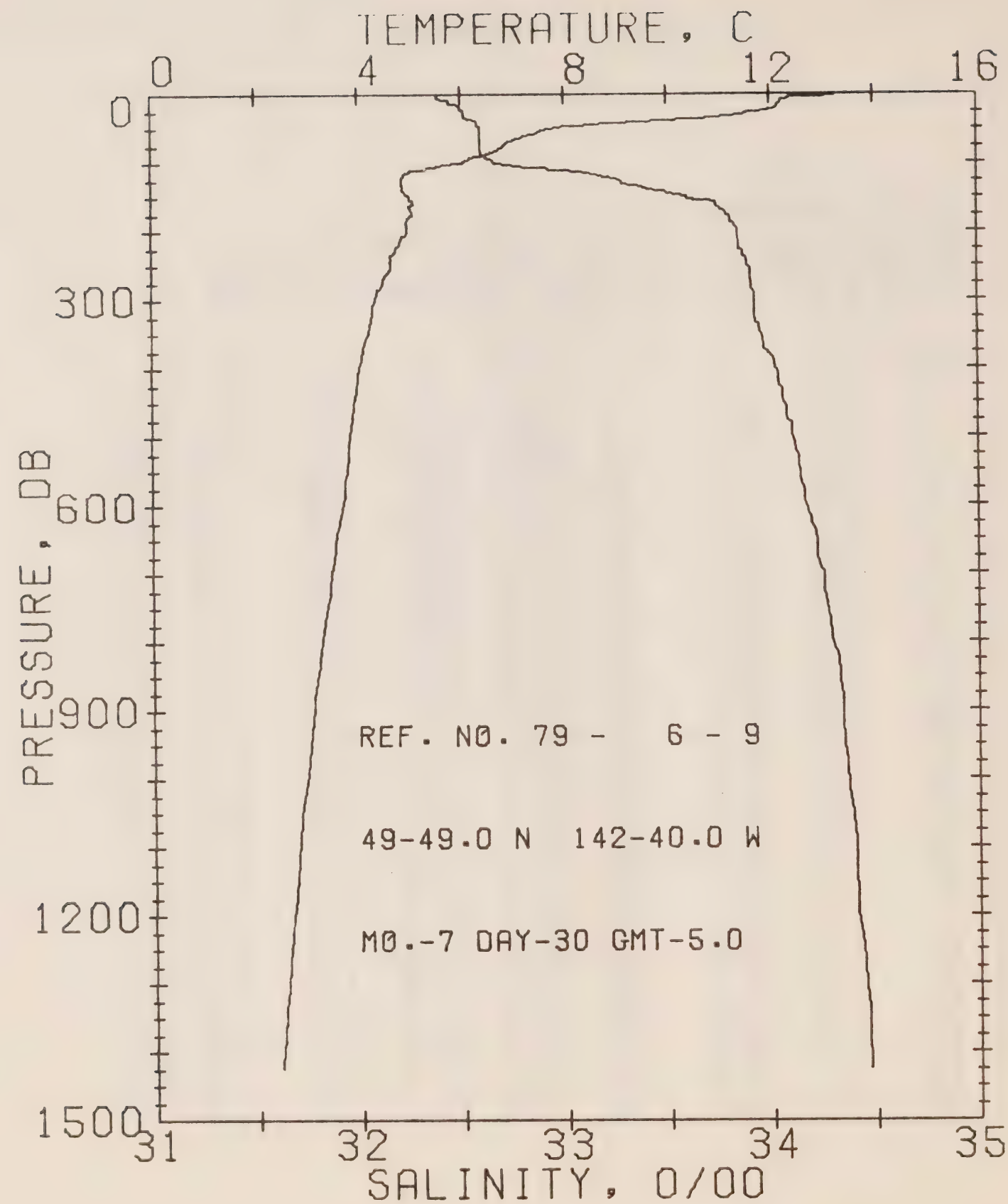
DATE 30/ 7/79

POSITION 49-49.0N, 142-40.0W GMT 5.0 STATION 12

RESULTS OF STP CAST 187 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.25	32.39	0	24.35	358.8	.00	.00	1498.
10	12.21	32.44	10	24.59	336.2	.35	.02	1495.
20	12.10	32.50	20	24.65	330.1	.68	.07	1495.
30	11.45	32.51	30	24.78	318.1	1.00	.15	1493.
40	9.26	32.58	40	25.21	277.6	1.30	.26	1485.
50	7.68	32.59	50	25.45	254.3	1.57	.38	1479.
60	7.27	32.59	60	25.51	249.0	1.82	.52	1478.
70	6.89	32.59	70	25.56	244.2	2.06	.68	1477.
80	6.72	32.59	80	25.58	242.1	2.31	.87	1476.
90	6.31	32.61	89	25.66	235.3	2.55	1.08	1475.
100	5.84	32.67	99	25.76	225.7	2.78	1.30	1473.
110	5.18	32.93	109	26.04	198.9	2.99	1.53	1471.
120	4.87	33.19	119	26.28	176.1	3.17	1.74	1470.
130	4.86	33.30	129	26.37	167.4	3.34	1.96	1470.
140	4.89	33.47	139	26.50	155.2	3.51	2.18	1471.
150	5.01	33.59	149	26.58	148.0	3.66	2.40	1472.
160	5.09	33.73	159	26.68	138.5	3.80	2.63	1472.
170	5.06	33.78	169	26.72	134.6	3.94	2.86	1472.
180	4.95	33.81	179	26.76	131.2	4.07	3.09	1472.
190	4.97	33.83	189	26.77	130.0	4.20	3.34	1472.
200	4.95	33.84	199	26.78	129.2	4.33	3.60	1473.
210	4.84	33.84	209	26.80	127.8	4.46	3.87	1472.
220	4.78	33.85	218	26.81	126.7	4.58	4.15	1472.
230	4.69	33.87	228	26.84	124.4	4.71	4.43	1472.
240	4.65	33.88	238	26.85	123.3	4.83	4.73	1472.
250	4.63	33.89	248	26.86	122.4	4.96	5.04	1472.
260	4.56	33.90	258	26.88	121.0	5.08	5.35	1472.
270	4.49	33.90	268	26.89	120.1	5.20	5.68	1472.
280	4.43	33.91	278	26.90	119.0	5.32	6.01	1472.
290	4.36	33.92	288	26.91	117.7	5.44	6.36	1472.
300	4.31	33.92	298	26.92	117.2	5.55	6.71	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 9

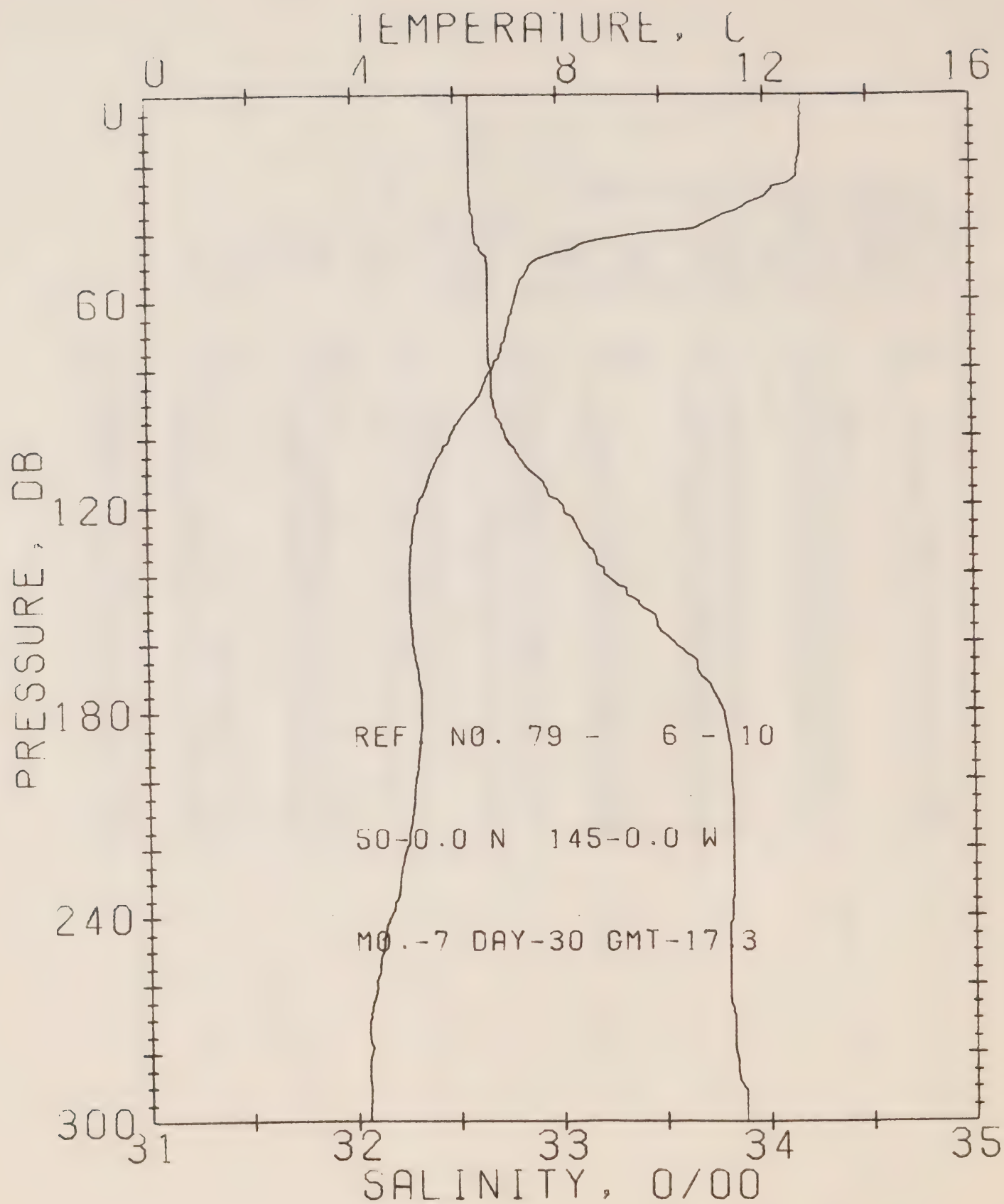
DATE 30/ 7/79

POSITION 49-49.0N, 142-40.0W GMT 5.0 STATION 12

RESULTS OF STP CAST 295 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.25	32.39	0	24.35	358.8	.00	.00	1498.
10	12.21	32.44	10	24.59	336.2	.35	.02	1495.
20	12.10	32.50	20	24.65	330.1	.68	.07	1495.
30	11.45	32.51	30	24.78	318.1	1.00	.15	1493.
50	7.68	32.59	50	25.45	254.3	1.57	.38	1479.
75	6.81	32.59	75	25.57	243.2	2.19	.77	1476.
100	5.84	32.67	99	25.76	225.7	2.78	1.30	1473.
125	4.85	33.27	124	26.35	170.0	3.26	1.85	1470.
150	5.01	33.59	149	26.58	148.0	3.66	2.40	1472.
175	5.07	33.79	174	26.73	134.0	4.00	2.97	1473.
200	4.95	33.84	199	26.78	129.2	4.33	3.60	1473.
225	4.72	33.85	223	26.82	126.1	4.65	4.29	1472.
250	4.63	33.89	248	26.86	122.4	4.96	5.04	1472.
300	4.31	33.92	298	26.92	117.2	5.55	6.71	1472.
400	4.00	34.02	397	27.03	107.2	6.69	10.74	1472.
500	3.82	34.10	496	27.11	100.0	7.72	15.48	1473.
600	3.67	34.16	595	27.18	94.6	8.69	20.91	1474.
800	3.25	34.29	793	27.32	81.8	10.44	33.34	1476.
1000	2.94	34.37	990	27.41	74.4	11.99	47.52	1478.
1200	2.68	34.41	1188	27.47	69.3	13.41	63.49	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 10

DATE 30/ 7/79

POSITION 50- .0N, 145- .0W

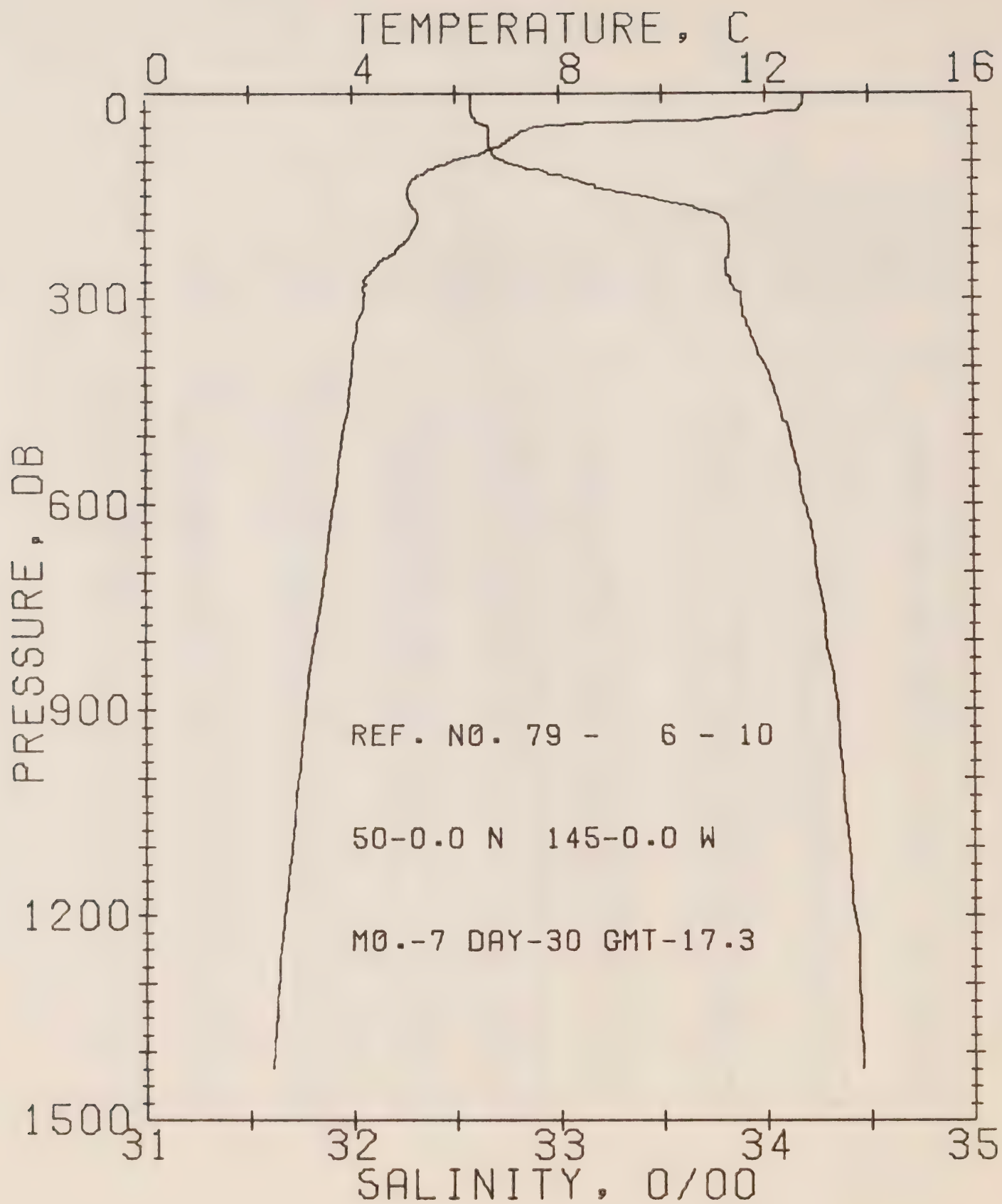
GMT 17.3

STATION P

RESULTS OF STP CAST 190 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.74	32.57	0	24.59	336.1	.00	.00	1497.
10	12.72	32.57	10	24.59	336.0	.34	.02	1497.
20	12.67	32.57	20	24.60	335.3	.67	.07	1497.
30	11.99	32.58	30	24.74	322.4	1.00	.15	1495.
40	9.94	32.59	40	25.11	287.4	1.31	.26	1488.
50	7.45	32.66	50	25.54	246.0	1.57	.38	1479.
60	7.16	32.66	60	25.58	242.3	1.82	.52	1478.
70	6.98	32.66	70	25.60	240.1	2.06	.68	1477.
80	6.71	32.67	80	25.65	236.1	2.30	.86	1476.
90	6.36	32.68	89	25.70	231.1	2.53	1.06	1475.
100	5.88	32.74	99	25.81	221.0	2.76	1.28	1473.
110	5.50	32.86	109	25.95	207.4	2.97	1.51	1472.
120	5.23	33.02	119	26.11	192.8	3.17	1.75	1471.
130	5.11	33.11	129	26.19	184.8	3.36	1.99	1471.
140	5.07	33.21	139	26.27	177.0	3.54	2.23	1471.
150	5.08	33.40	149	26.42	163.0	3.71	2.48	1472.
160	5.12	33.55	159	26.54	152.3	3.87	2.73	1472.
170	5.22	33.66	169	26.63	143.9	4.01	2.98	1473.
180	5.29	33.79	179	26.71	136.6	4.15	3.23	1474.
190	5.23	33.82	189	26.73	134.1	4.29	3.48	1473.
200	5.15	33.82	199	26.75	132.9	4.42	3.75	1473.
210	5.10	33.83	209	26.76	131.7	4.55	4.03	1473.
220	4.97	33.83	218	26.77	130.4	4.68	4.31	1473.
230	4.84	33.83	228	26.79	129.0	4.81	4.61	1473.
240	4.65	33.82	238	26.80	127.8	4.94	4.92	1472.
250	4.49	33.81	248	26.81	126.8	5.07	5.24	1471.
260	4.36	33.81	258	26.83	125.5	5.20	5.56	1471.
270	4.23	33.83	268	26.86	122.8	5.32	5.90	1471.
280	4.27	33.83	278	26.85	123.0	5.44	6.24	1471.
290	4.25	33.87	288	26.89	120.2	5.56	6.60	1471.
300	4.22	33.88	298	26.90	119.2	5.68	6.96	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 10

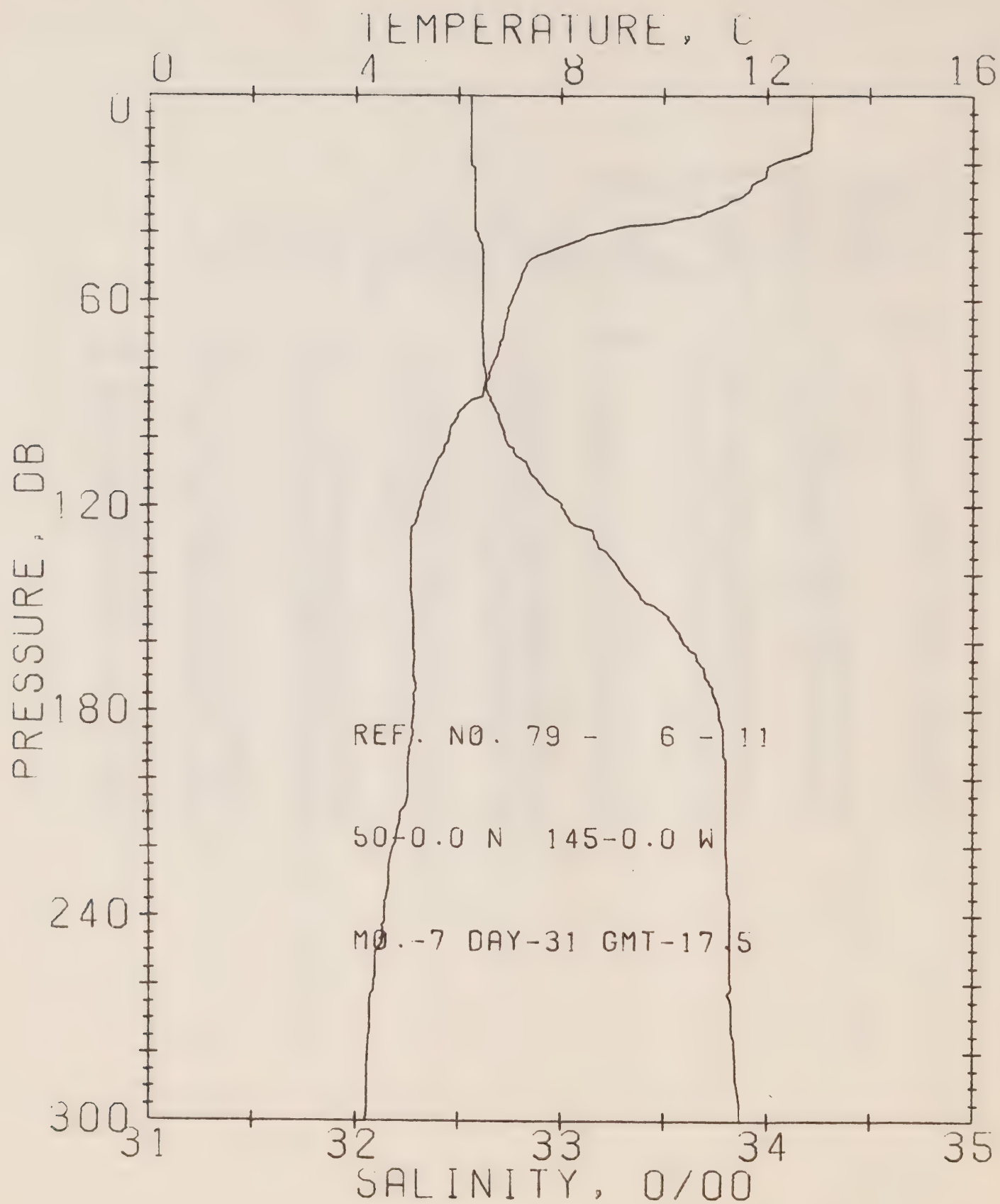
DATE 30/ 7/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 289 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.74	32.57	0	24.59	336.1	.00	.00	1497.
10	12.72	32.57	10	24.59	336.0	.34	.02	1497.
20	12.67	32.57	20	24.60	335.3	.67	.07	1497.
30	11.99	32.58	30	24.74	322.4	1.00	.15	1495.
50	7.45	32.66	50	25.54	246.0	1.57	.38	1479.
75	6.87	32.66	75	25.62	238.8	2.18	.77	1477.
100	5.88	32.74	99	25.81	221.0	2.76	1.28	1473.
125	5.15	33.08	124	26.16	187.8	3.27	1.86	1471.
150	5.08	33.40	149	26.42	163.0	3.71	2.48	1472.
175	5.29	33.74	174	26.67	140.2	4.08	3.10	1473.
200	5.15	33.82	199	26.75	132.9	4.42	3.75	1473.
225	4.88	33.83	223	26.78	129.4	4.75	4.46	1473.
250	4.49	33.81	248	26.81	126.8	5.07	5.24	1471.
300	4.22	33.88	298	26.90	119.2	5.68	6.96	1471.
400	3.98	34.00	397	27.01	108.6	6.83	11.03	1472.
500	3.80	34.11	496	27.12	99.2	7.87	15.79	1473.
600	3.60	34.18	595	27.20	92.7	8.83	21.15	1474.
800	3.22	34.29	793	27.32	82.2	10.56	33.51	1476.
1000	2.93	34.37	990	27.41	74.2	12.11	47.71	1478.
1200	2.66	34.42	1188	27.48	68.5	13.54	63.73	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 11

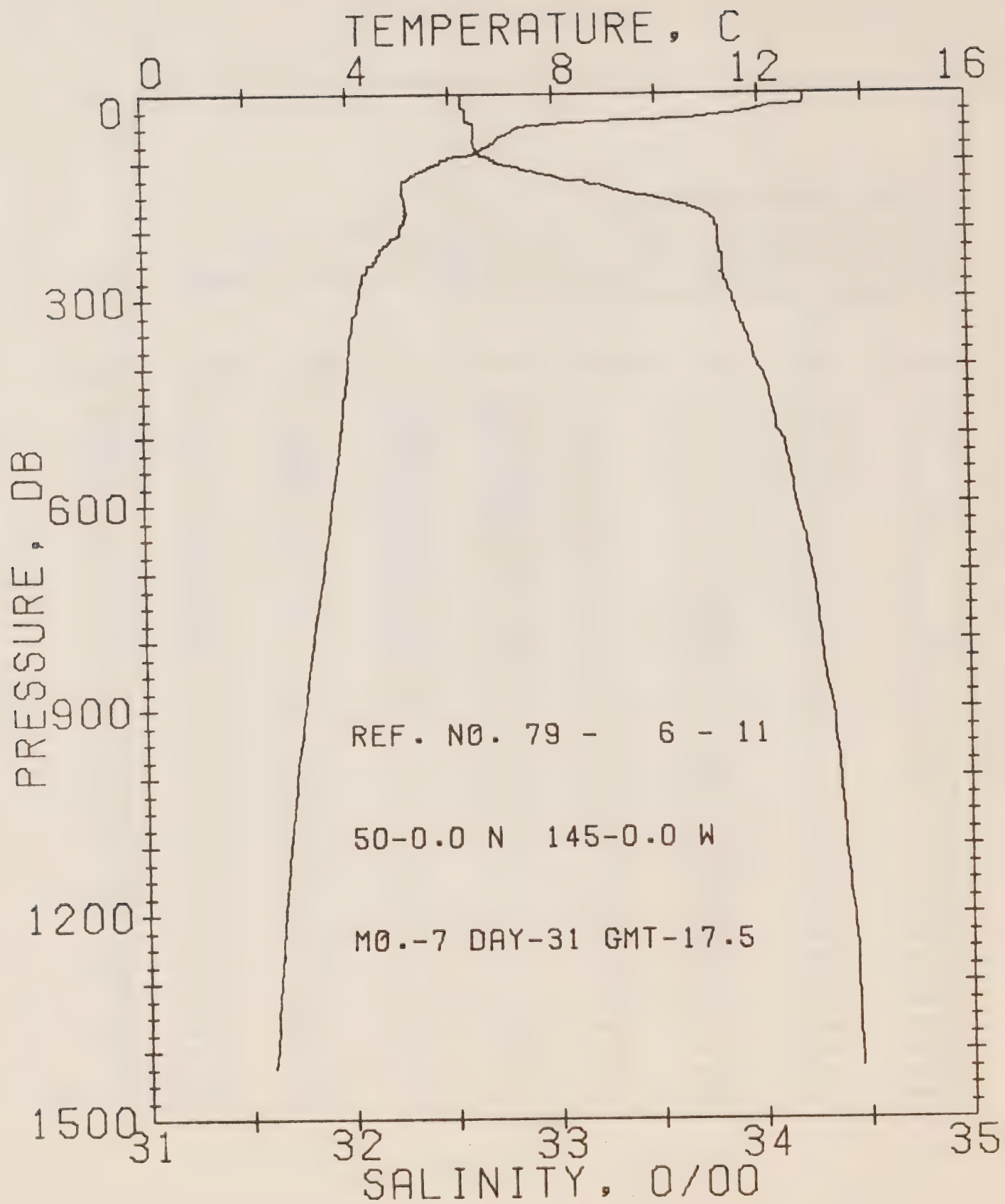
DATE 31/ 7/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 192 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.88	32.56	0	24.55	339.4	.00	.00	1497.
10	12.87	32.56	10	24.55	339.5	.34	.02	1498.
20	12.10	32.56	20	24.70	325.6	.68	.07	1495.
30	11.46	32.58	30	24.83	313.1	1.00	.15	1493.
40	8.81	32.59	40	25.29	270.1	1.29	.25	1484.
50	7.30	32.62	50	25.53	246.9	1.55	.37	1478.
60	7.03	32.62	60	25.57	243.6	1.79	.51	1477.
70	6.86	32.61	70	25.58	241.9	2.03	.67	1477.
80	6.62	32.63	80	25.62	238.2	2.27	.85	1476.
90	6.18	32.66	89	25.71	230.3	2.51	1.06	1474.
100	5.80	32.72	99	25.81	221.1	2.74	1.28	1473.
110	5.50	32.85	109	25.94	208.5	2.95	1.51	1472.
120	5.24	33.00	119	26.09	194.4	3.15	1.74	1471.
130	5.08	33.17	129	26.24	180.0	3.34	1.98	1471.
140	5.06	33.30	139	26.35	170.2	3.51	2.22	1471.
150	5.11	33.47	149	26.48	157.7	3.68	2.46	1472.
160	5.13	33.59	159	26.57	149.5	3.83	2.70	1472.
170	5.13	33.70	169	26.65	141.3	3.97	2.95	1473.
180	5.12	33.77	179	26.71	136.1	4.11	3.19	1473.
190	5.07	33.79	189	26.73	134.2	4.25	3.45	1473.
200	5.01	33.80	199	26.75	132.8	4.38	3.71	1473.
210	4.86	33.80	209	26.76	131.3	4.51	3.99	1472.
220	4.73	33.80	218	26.78	129.9	4.65	4.28	1472.
230	4.63	33.81	228	26.80	128.2	4.77	4.57	1472.
240	4.57	33.82	238	26.81	126.9	4.90	4.88	1472.
250	4.41	33.82	248	26.83	125.2	5.03	5.19	1471.
260	4.34	33.83	258	26.84	123.8	5.15	5.52	1471.
270	4.26	33.83	268	26.85	123.1	5.28	5.85	1471.
280	4.23	33.84	278	26.87	121.8	5.40	6.19	1471.
290	4.22	33.86	288	26.88	120.9	5.52	6.55	1471.
300	4.20	33.87	298	26.89	119.7	5.64	6.91	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 11

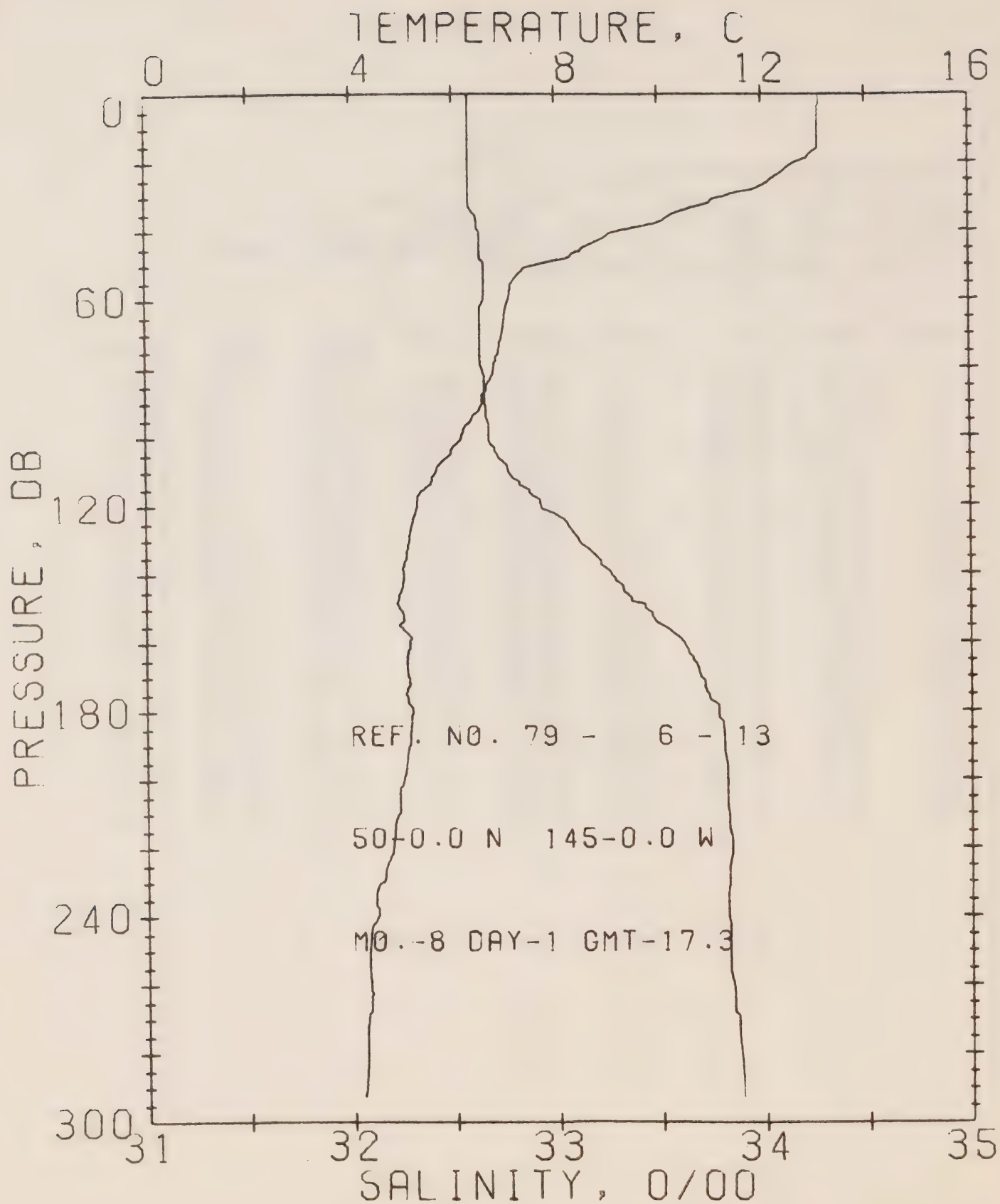
DATE 31/ 7/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 292 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.88	32.56	0	24.55	339.4	.00	.00	1497.
10	12.87	32.56	10	24.55	339.5	.34	.02	1498.
20	12.10	32.56	20	24.70	325.6	.68	.07	1495.
30	11.46	32.58	30	24.83	313.1	1.00	.15	1493.
50	7.30	32.62	50	25.53	246.9	1.55	.37	1478.
75	6.76	32.62	75	25.60	240.4	2.15	.76	1476.
100	5.80	32.72	99	25.81	221.1	2.74	1.28	1473.
125	5.15	33.06	124	26.15	189.0	3.25	1.86	1471.
150	5.11	33.47	149	26.48	157.7	3.68	2.46	1472.
175	5.13	33.74	174	26.69	138.4	4.04	3.07	1473.
200	5.01	33.80	199	26.75	132.8	4.38	3.71	1473.
225	4.64	33.81	223	26.80	128.2	4.71	4.42	1472.
250	4.41	33.82	248	26.83	125.2	5.03	5.19	1471.
300	4.20	33.87	298	26.89	119.7	5.64	6.91	1471.
400	3.97	33.99	397	27.01	109.2	6.78	10.97	1472.
500	3.81	34.09	496	27.11	100.8	7.83	15.77	1473.
600	3.63	34.17	595	27.18	94.0	8.80	21.19	1474.
800	3.23	34.28	793	27.31	82.7	10.55	33.68	1476.
1000	2.89	34.37	990	27.41	73.8	12.11	47.95	1478.
1200	2.64	34.43	1188	27.48	67.6	13.53	63.85	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 13

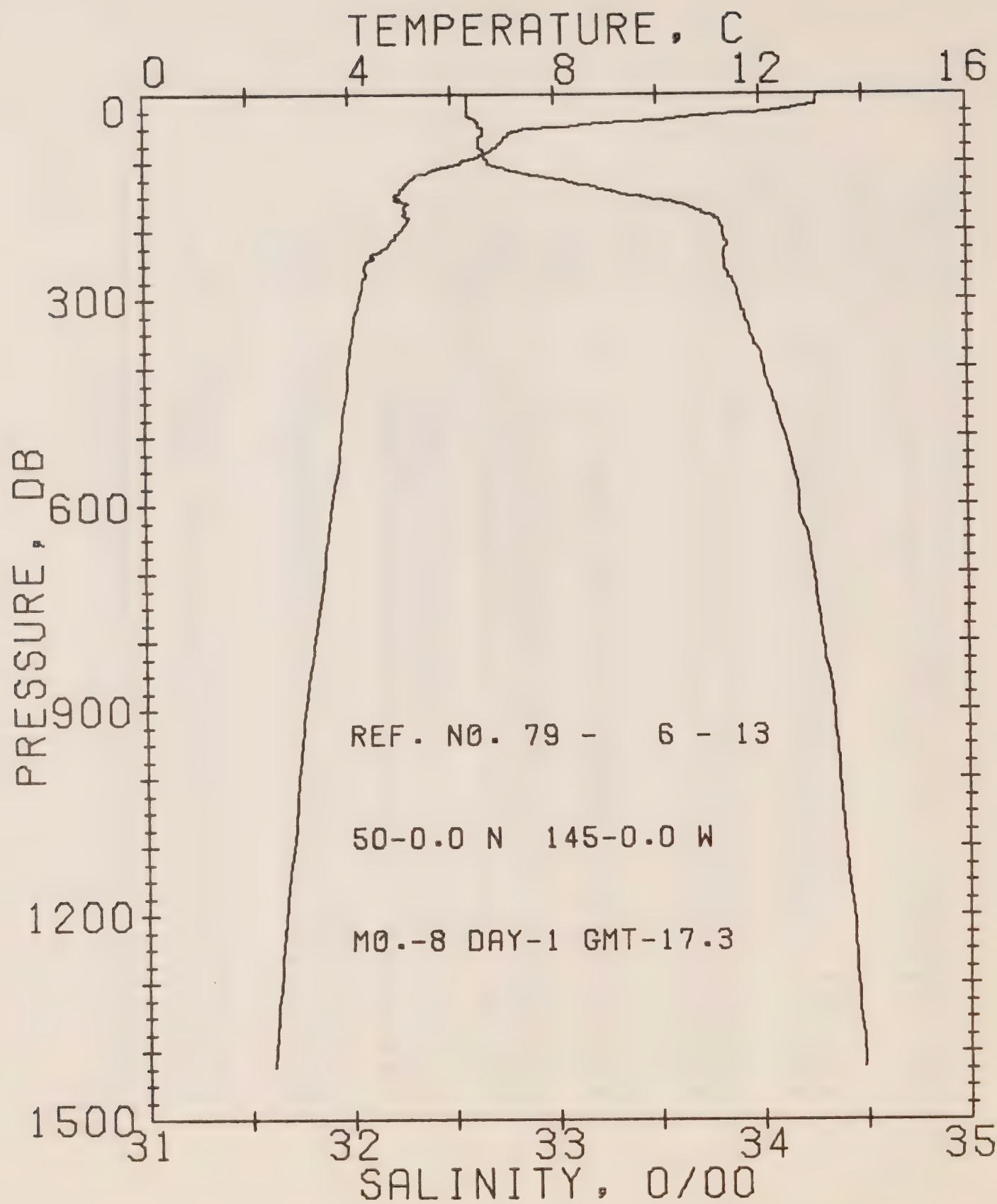
DATE 1/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 195 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.11	32.58	0	24.52	342.2	.00	.00	1496.
10	13.10	32.58	10	24.52	342.3	.34	.02	1498.
20	12.63	32.58	20	24.62	333.8	.68	.07	1497.
30	11.28	32.58	30	24.87	310.0	1.01	.15	1492.
40	9.26	32.63	40	25.25	273.9	1.30	.26	1485.
50	7.59	32.65	50	25.51	248.6	1.56	.38	1479.
60	7.08	32.65	60	25.58	242.0	1.81	.51	1477.
70	6.95	32.63	70	25.58	242.0	2.05	.67	1477.
80	6.79	32.64	80	25.61	239.5	2.29	.86	1476.
90	6.57	32.65	89	25.65	235.9	2.53	1.06	1476.
100	6.16	32.67	99	25.72	229.5	2.76	1.29	1474.
110	5.66	32.77	109	25.86	216.3	2.98	1.53	1473.
120	5.28	32.93	119	26.03	200.1	3.19	1.77	1471.
130	5.12	33.11	129	26.19	184.9	3.38	2.01	1471.
140	5.01	33.27	139	26.33	171.9	3.56	2.26	1471.
150	4.94	33.43	149	26.46	159.2	3.73	2.51	1471.
160	5.13	33.61	159	26.58	148.0	3.88	2.75	1472.
170	5.09	33.69	169	26.65	141.6	4.03	2.99	1472.
180	5.16	33.78	179	26.71	135.8	4.16	3.24	1473.
190	5.13	33.81	189	26.74	133.3	4.30	3.49	1473.
200	4.99	33.82	199	26.76	131.1	4.43	3.75	1473.
210	4.90	33.83	209	26.78	129.5	4.56	4.03	1472.
220	4.78	33.84	218	26.80	127.5	4.69	4.31	1472.
230	4.58	33.83	228	26.82	126.1	4.82	4.60	1471.
240	4.47	33.82	238	26.82	125.8	4.94	4.90	1471.
250	4.30	33.83	248	26.85	123.4	5.07	5.21	1471.
260	4.31	33.84	258	26.86	122.6	5.19	5.53	1471.
270	4.27	33.87	268	26.88	120.2	5.31	5.86	1471.
280	4.24	33.88	278	26.89	119.4	5.43	6.19	1471.
290	4.21	33.89	288	26.91	118.2	5.55	6.54	1471.
300	4.18	33.89	298	26.91	117.7	5.67	6.89	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 13

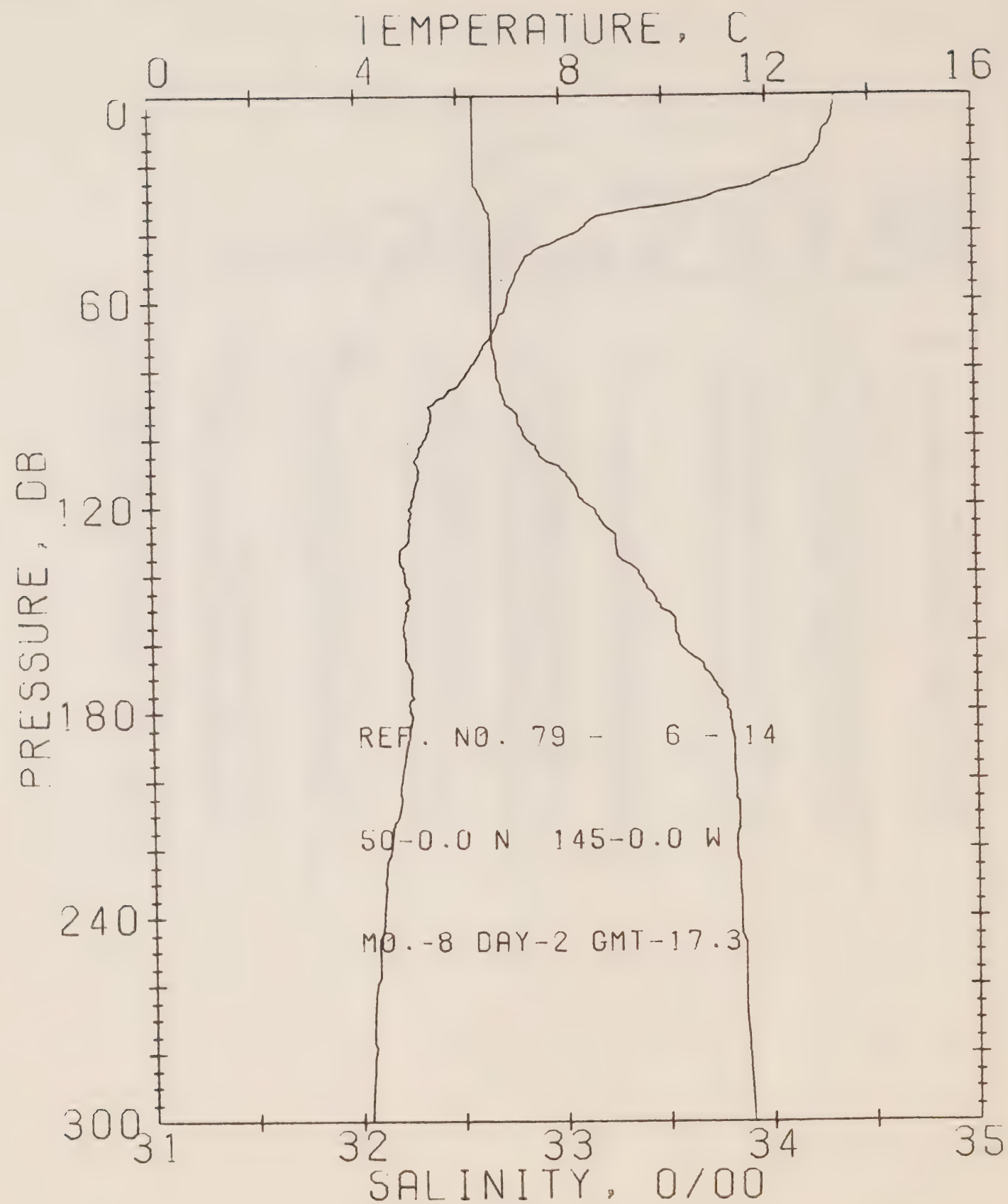
DATE 1/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 280 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.11	32.58	0	24.52	342.2	.00	.00	1498.
10	13.10	32.58	10	24.52	342.3	.34	.02	1498.
20	12.63	32.58	20	24.62	333.8	.68	.07	1497.
30	11.28	32.58	30	24.87	310.0	1.01	.15	1492.
50	7.59	32.65	50	25.51	248.6	1.56	.38	1479.
75	6.90	32.63	75	25.59	241.4	2.17	.76	1477.
100	6.16	32.67	99	25.72	229.5	2.76	1.29	1474.
125	5.19	33.05	124	26.13	190.1	3.29	1.89	1471.
150	4.94	33.43	149	26.46	159.2	3.73	2.51	1471.
175	5.05	33.73	174	26.69	138.3	4.10	3.11	1472.
200	4.99	33.82	199	26.76	131.1	4.43	3.75	1473.
225	4.65	33.83	223	26.81	126.9	4.75	4.45	1472.
250	4.30	33.83	248	26.85	123.4	5.07	5.21	1471.
300	4.18	33.89	298	26.91	117.7	5.67	6.89	1471.
400	3.96	34.01	397	27.03	107.6	6.79	10.89	1472.
500	3.82	34.11	496	27.12	99.2	7.82	15.63	1473.
600	3.62	34.18	595	27.19	92.9	8.78	20.99	1474.
800	3.27	34.29	793	27.32	82.1	10.52	33.37	1476.
1000	2.94	34.37	990	27.41	74.1	12.07	47.54	1478.
1200	2.68	34.44	1188	27.49	67.5	13.49	63.46	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 14

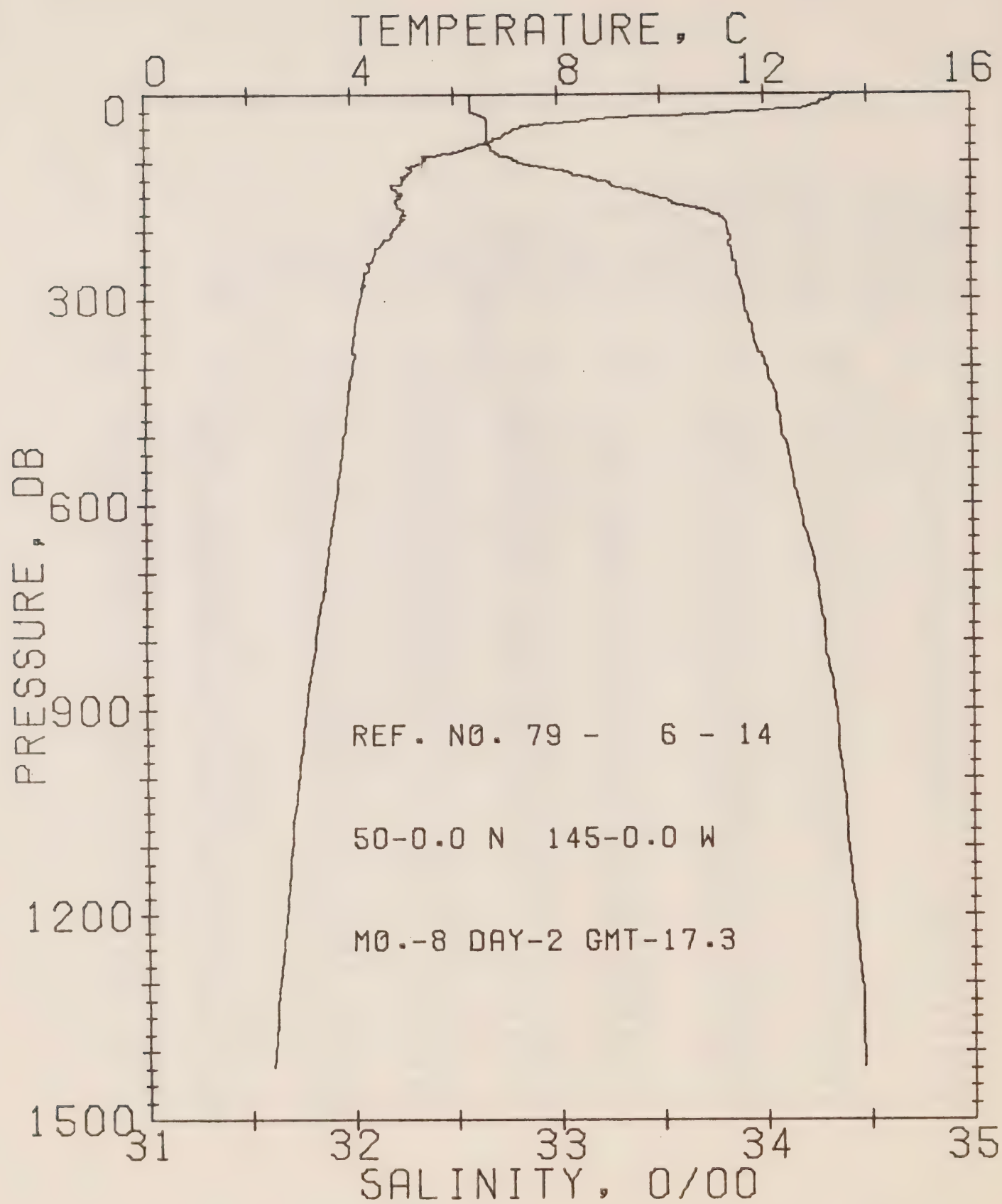
DATE 2/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 193 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.40	32.58	0	24.46	347.7	.00	.00	1499.
10	13.11	32.58	10	24.52	342.5	.35	.02	1498.
20	12.80	32.58	20	24.58	336.9	.69	.07	1497.
30	10.81	32.62	30	24.98	299.1	1.01	.15	1491.
40	8.29	32.66	40	25.42	257.4	1.28	.25	1482.
50	7.21	32.66	50	25.57	242.8	1.52	.36	1478.
60	6.94	32.66	60	25.61	239.5	1.77	.50	1477.
70	6.62	32.66	70	25.65	235.6	2.00	.65	1476.
80	6.19	32.68	80	25.72	228.9	2.24	.83	1474.
90	5.48	32.72	89	25.84	217.7	2.46	1.02	1471.
100	5.33	32.82	99	25.94	208.7	2.67	1.23	1471.
110	5.19	33.01	109	26.10	193.0	2.87	1.44	1471.
120	5.05	33.13	119	26.21	182.6	3.06	1.67	1471.
130	4.98	33.25	129	26.32	172.9	3.24	1.89	1471.
140	4.92	33.37	139	26.42	163.4	3.41	2.12	1471.
150	4.96	33.47	149	26.49	156.4	3.57	2.36	1471.
160	4.91	33.55	159	26.56	149.6	3.72	2.60	1471.
170	5.05	33.71	169	26.67	139.7	3.86	2.84	1472.
180	4.98	33.80	179	26.75	132.3	4.00	3.08	1472.
190	4.91	33.82	189	26.77	130.1	4.13	3.33	1472.
200	4.80	33.83	199	26.79	128.3	4.26	3.59	1472.
210	4.73	33.84	209	26.81	126.8	4.39	3.85	1472.
220	4.57	33.83	218	26.82	125.9	4.51	4.13	1471.
230	4.46	33.84	228	26.84	124.1	4.64	4.42	1471.
240	4.43	33.85	238	26.85	123.1	4.76	4.71	1471.
250	4.34	33.87	248	26.88	120.7	4.88	5.02	1471.
260	4.28	33.87	258	26.88	120.2	5.00	5.33	1471.
270	4.23	33.87	268	26.89	119.4	5.12	5.65	1471.
280	4.25	33.88	278	26.90	119.0	5.24	5.99	1471.
290	4.20	33.89	288	26.91	117.8	5.36	6.33	1471.
300	4.16	33.90	298	26.92	117.0	5.48	6.68	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 14

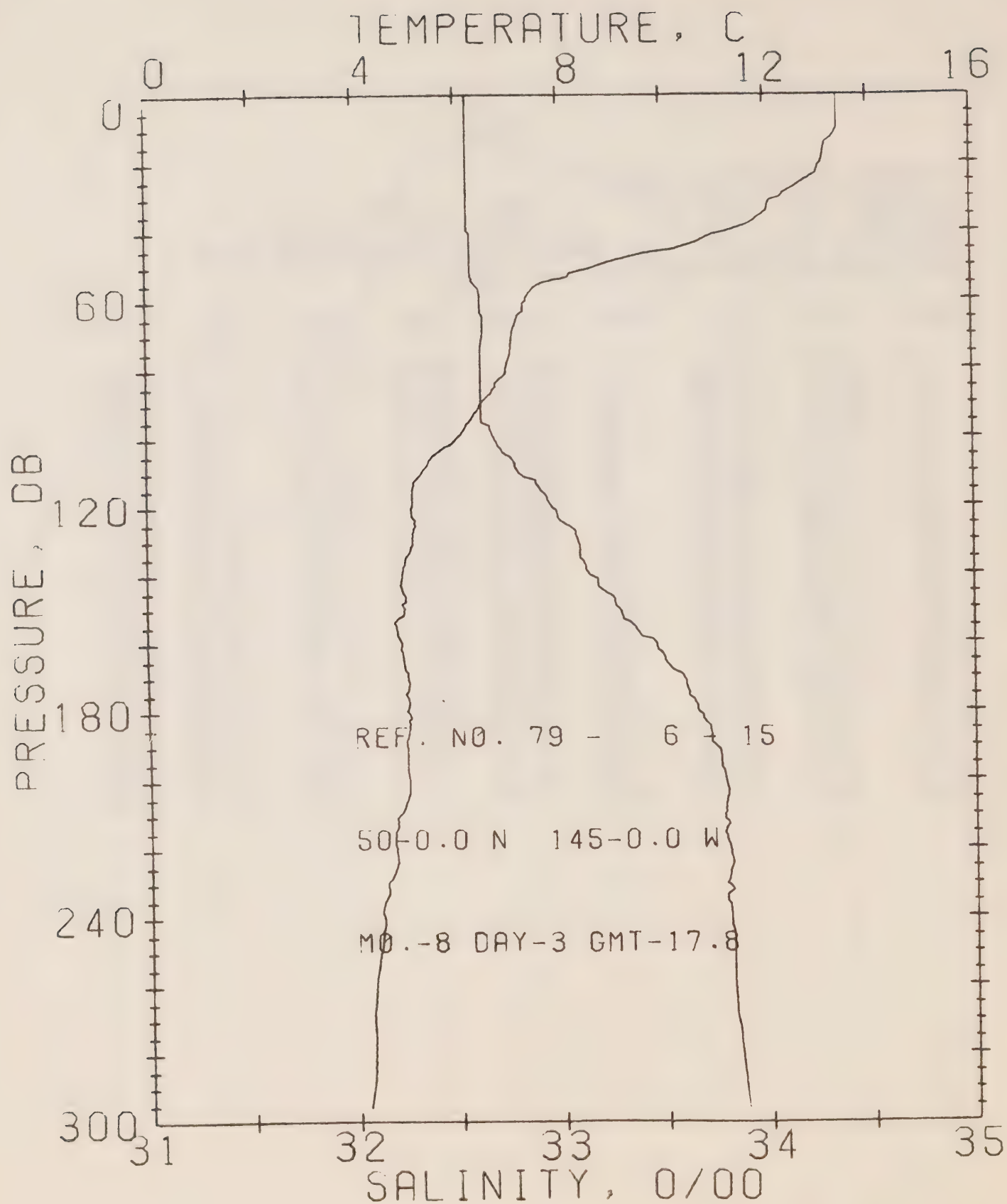
DATE 2/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 302 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.40	32.58	0	24.46	347.7	.00	.00	1499.
10	13.11	32.58	10	24.52	342.5	.35	.02	1498.
20	12.80	32.58	20	24.58	336.9	.69	.07	1497.
30	10.81	32.62	30	24.98	299.1	1.01	.15	1491.
50	7.21	32.66	50	25.57	242.8	1.52	.36	1478.
75	6.42	32.67	75	25.68	232.6	2.12	.74	1475.
100	5.33	32.82	99	25.94	208.7	2.67	1.23	1471.
125	5.00	33.19	124	26.27	177.6	3.15	1.78	1471.
150	4.96	33.47	149	26.49	156.4	3.57	2.36	1471.
175	5.02	33.76	174	26.71	135.7	3.93	2.96	1472.
200	4.80	33.83	199	26.79	128.3	4.26	3.59	1472.
225	4.49	33.84	223	26.84	124.3	4.57	4.27	1471.
250	4.34	33.87	248	26.88	120.7	4.88	5.02	1471.
300	4.17	33.90	298	26.92	117.1	5.48	6.68	1471.
400	4.00	34.01	397	27.02	108.2	6.61	10.70	1472.
500	3.82	34.08	496	27.10	101.7	7.65	15.49	1473.
600	3.66	34.16	595	27.18	94.6	8.63	20.97	1474.
800	3.25	34.29	793	27.32	82.2	10.39	33.48	1476.
1000	2.92	34.37	990	27.41	74.0	11.94	47.72	1478.
1200	2.67	34.43	1188	27.48	67.9	13.36	63.62	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 15

DATE 3/ 8/79

POSITION 50- .0N, 145- .0W

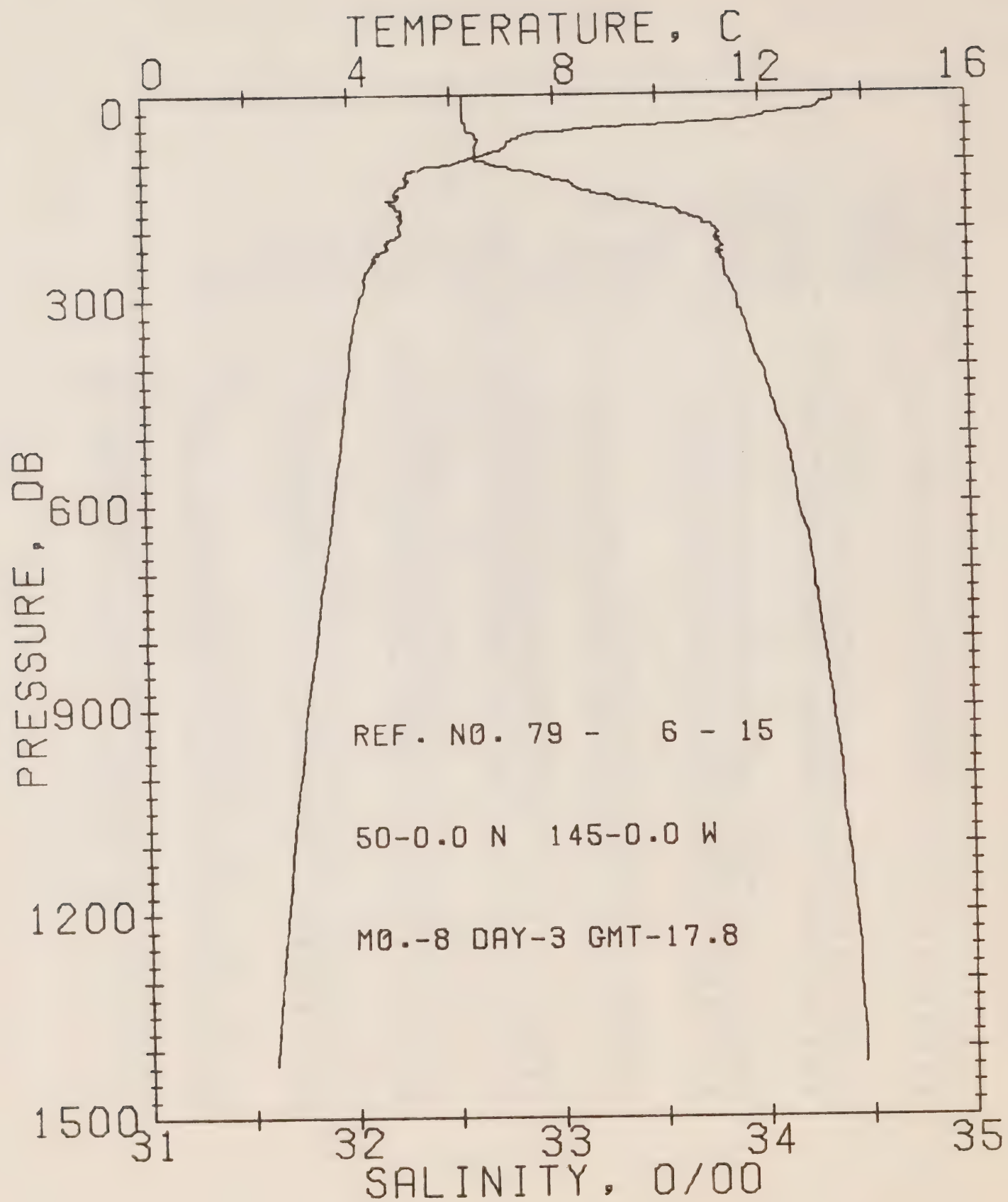
GMT 17.8

STATION P

RESULTS OF STP CAST 166 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.44	32.56	0	24.44	350.0	.00	.00	1499.
10	13.43	32.56	10	24.44	350.0	.35	.02	1499.
20	13.11	32.56	20	24.51	344.2	.70	.07	1499.
30	12.31	32.56	30	24.66	329.6	1.03	.16	1496.
40	11.26	32.57	40	24.86	310.6	1.36	.27	1492.
50	8.76	32.57	50	25.28	271.1	1.65	.40	1483.
60	7.35	32.62	60	25.52	247.8	1.90	.55	1478.
70	7.09	32.63	70	25.56	243.9	2.15	.71	1477.
80	6.97	32.62	80	25.57	243.1	2.39	.90	1477.
90	6.46	32.62	89	25.64	236.8	2.63	1.11	1475.
100	6.00	32.68	99	25.75	226.9	2.87	1.33	1474.
110	5.32	32.80	109	25.92	210.2	3.08	1.56	1471.
120	5.13	32.96	119	26.07	196.2	3.28	1.80	1471.
130	5.12	33.08	129	26.17	186.9	3.48	2.04	1471.
140	4.92	33.14	139	26.23	180.6	3.66	2.30	1470.
150	4.96	33.29	149	26.35	169.9	3.83	2.55	1471.
160	4.91	33.46	159	26.49	156.7	4.00	2.81	1471.
170	5.01	33.59	169	26.58	148.2	4.15	3.07	1472.
180	4.99	33.66	179	26.64	142.9	4.30	3.33	1472.
190	4.97	33.74	189	26.70	136.8	4.44	3.59	1472.
200	5.01	33.79	199	26.74	133.6	4.57	3.86	1473.
210	4.82	33.78	209	26.75	132.3	4.70	4.14	1472.
220	4.75	33.81	218	26.78	129.4	4.84	4.43	1472.
230	4.57	33.79	228	26.79	129.0	4.96	4.72	1471.
240	4.49	33.81	238	26.81	126.8	5.09	5.03	1471.
250	4.43	33.82	248	26.83	125.5	5.22	5.34	1471.
260	4.32	33.82	258	26.84	124.2	5.34	5.67	1471.
270	4.29	33.84	268	26.85	122.9	5.47	6.00	1471.
280	4.29	33.86	278	26.87	121.4	5.59	6.34	1471.
290	4.25	33.87	288	26.89	119.9	5.71	6.69	1471.
300	4.19	33.88	298	26.90	118.8	5.83	7.05	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 15

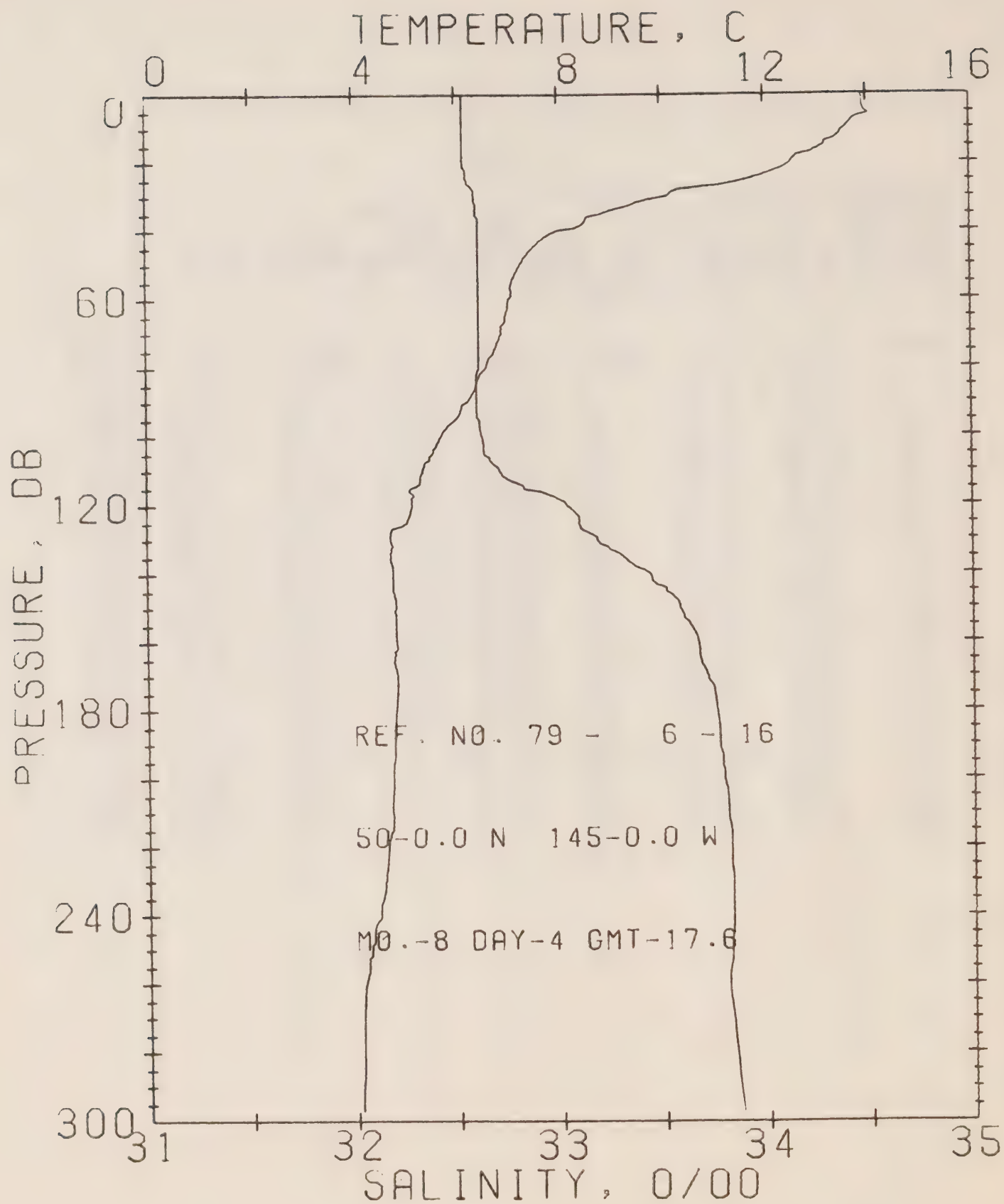
DATE 3/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 276 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.44	32.56	0	24.44	350.0	.00	.00	1499.
10	13.43	32.56	10	24.44	350.0	.35	.02	1499.
20	13.11	32.56	20	24.51	344.2	.70	.07	1499.
30	12.31	32.56	30	24.66	329.6	1.03	.16	1496.
50	8.76	32.57	50	25.28	271.1	1.65	.40	1483.
75	7.06	32.62	75	25.56	244.2	2.27	.80	1477.
100	6.00	32.68	99	25.75	226.9	2.87	1.33	1474.
125	5.17	33.03	124	26.12	191.8	3.38	1.92	1471.
150	4.96	33.29	149	26.35	169.9	3.83	2.55	1471.
175	4.97	33.61	174	26.60	146.3	4.23	3.20	1472.
200	5.01	33.79	199	26.74	133.6	4.57	3.86	1473.
225	4.75	33.82	223	26.79	129.1	4.90	4.57	1472.
250	4.43	33.82	248	26.83	125.5	5.22	5.34	1471.
300	4.19	33.88	298	26.90	118.8	5.83	7.05	1471.
400	3.97	34.00	397	27.02	108.3	6.97	11.10	1472.
500	3.81	34.11	496	27.12	99.6	8.01	15.88	1473.
600	3.63	34.16	595	27.18	94.2	8.97	21.29	1474.
800	3.26	34.28	793	27.31	82.9	10.73	33.80	1476.
1000	2.93	34.36	990	27.41	74.5	12.30	48.16	1478.
1200	2.65	34.43	1188	27.48	68.0	13.73	64.15	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 16

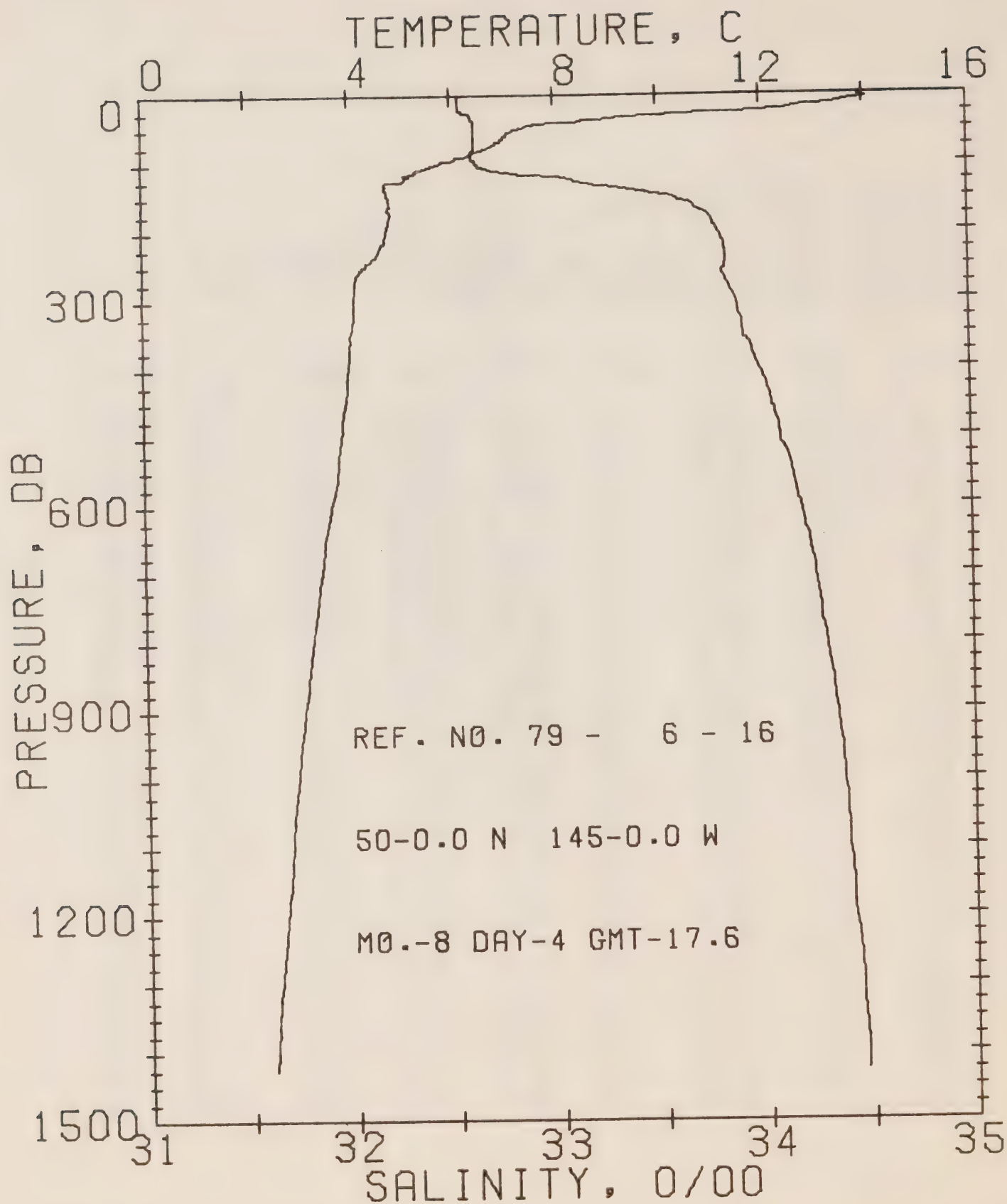
DATE 4/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.93	32.54	0	24.33	360.9	.00	.00	1501.
10	13.61	32.54	10	24.39	354.9	.36	.02	1500.
20	12.53	32.54	20	24.60	334.9	.71	.07	1497.
30	10.14	32.59	30	25.07	290.4	1.02	.15	1488.
40	7.98	32.61	40	25.43	256.8	1.29	.25	1480.
50	7.26	32.61	50	25.53	247.2	1.54	.36	1478.
60	7.05	32.61	60	25.56	244.6	1.79	.50	1477.
70	6.88	32.61	70	25.58	242.6	2.03	.66	1477.
80	6.59	32.61	80	25.62	239.0	2.27	.85	1476.
90	6.22	32.60	89	25.66	235.4	2.51	1.05	1474.
100	5.71	32.62	99	25.74	227.7	2.74	1.28	1472.
110	5.33	32.71	109	25.85	217.0	2.96	1.51	1471.
120	5.11	33.03	119	26.13	190.7	3.17	1.75	1471.
130	4.69	33.18	129	26.29	175.0	3.35	1.99	1469.
140	4.75	33.44	139	26.49	156.3	3.52	2.22	1470.
150	4.79	33.58	149	26.60	146.3	3.67	2.44	1471.
160	4.81	33.66	159	26.66	140.4	3.81	2.66	1471.
170	4.82	33.71	169	26.70	137.1	3.95	2.90	1471.
180	4.79	33.76	179	26.74	133.5	4.09	3.14	1471.
190	4.75	33.77	189	26.75	132.1	4.22	3.39	1471.
200	4.73	33.79	199	26.77	130.5	4.35	3.65	1472.
210	4.70	33.81	209	26.79	128.8	4.48	3.92	1472.
220	4.60	33.82	218	26.81	127.0	4.61	4.20	1471.
230	4.56	33.83	228	26.82	125.9	4.73	4.49	1471.
240	4.46	33.83	238	26.83	124.9	4.86	4.79	1471.
250	4.27	33.82	248	26.84	123.8	4.98	5.10	1471.
260	4.15	33.81	258	26.85	123.4	5.11	5.42	1470.
270	4.11	33.83	268	26.87	121.7	5.23	5.75	1470.
280	4.10	33.84	278	26.88	120.6	5.35	6.09	1470.
290	4.09	33.86	288	26.89	119.2	5.47	6.44	1470.
300	4.07	33.87	298	26.91	118.2	5.59	6.80	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 16

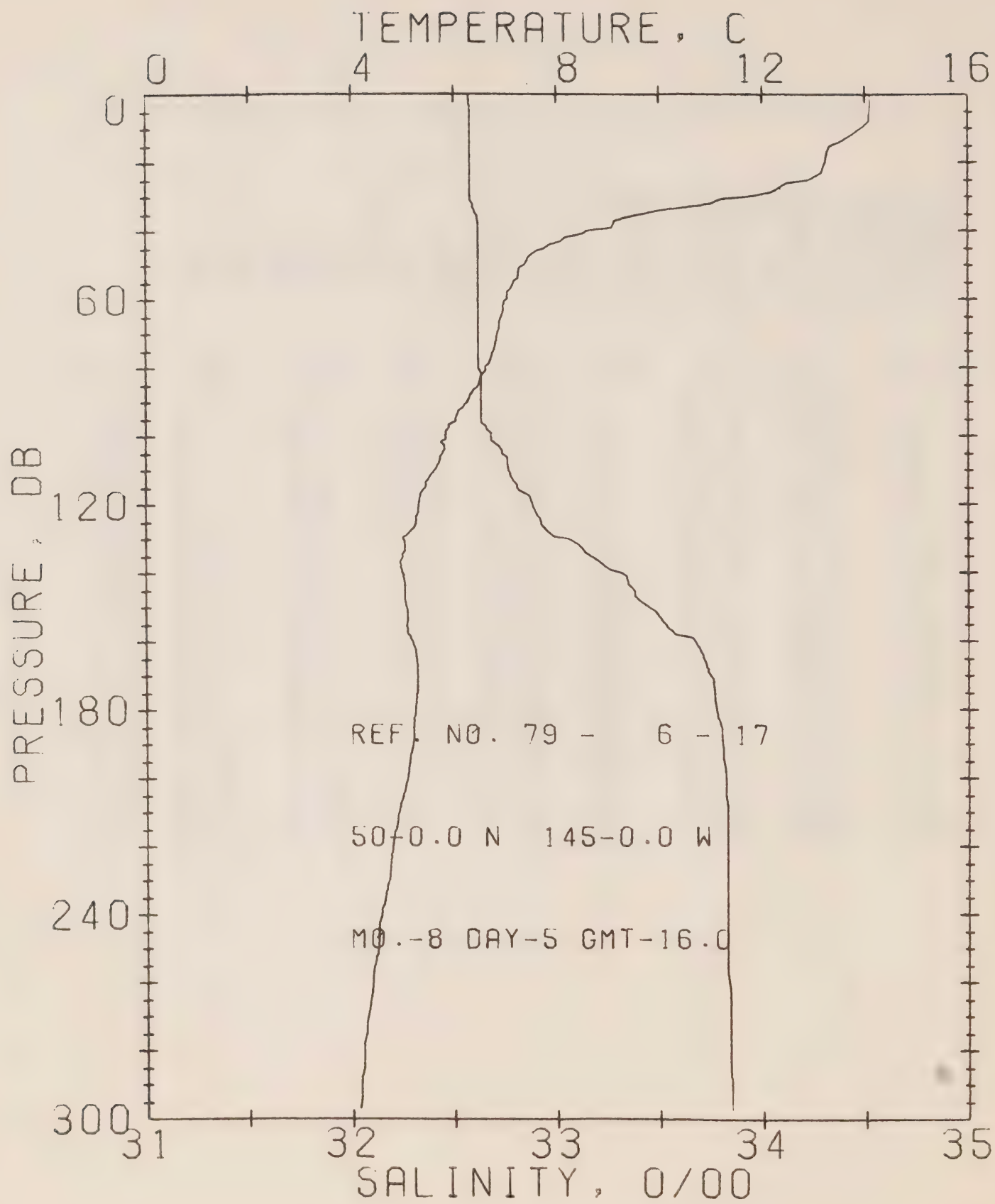
DATE 4/ 8/79

POSITION 50- .0N; 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 282 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.93	32.54	0	24.33	360.9	.00	.00	1501.
10	13.61	32.54	10	24.39	354.9	.36	.02	1500.
20	12.53	32.54	20	24.60	334.9	.71	.07	1497.
30	10.14	32.59	30	25.07	290.4	1.02	.15	1488.
50	7.26	32.61	50	25.53	247.2	1.54	.36	1478.
75	6.74	32.61	75	25.60	240.9	2.15	.75	1476.
100	5.71	32.62	99	25.74	227.7	2.74	1.28	1472.
125	5.02	33.09	124	26.18	185.3	3.26	1.87	1471.
150	4.79	33.58	149	26.60	146.3	3.67	2.44	1471.
175	4.81	33.74	174	26.72	134.5	4.02	3.02	1471.
200	4.73	33.79	199	26.77	130.5	4.35	3.65	1472.
225	4.58	33.82	223	26.81	126.8	4.67	4.34	1471.
250	4.27	33.82	248	26.84	123.8	4.98	5.10	1471.
300	4.07	33.87	298	26.91	118.2	5.59	6.80	1471.
400	3.97	33.98	397	27.00	109.7	6.74	10.88	1472.
500	3.82	34.08	496	27.10	101.6	7.79	15.70	1473.
600	3.61	34.17	595	27.19	93.4	8.76	21.16	1474.
800	3.22	34.29	793	27.32	81.6	10.50	33.53	1476.
1000	2.89	34.37	990	27.41	73.6	12.05	47.67	1478.
1200	2.64	34.42	1188	27.47	68.6	13.47	63.59	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 17

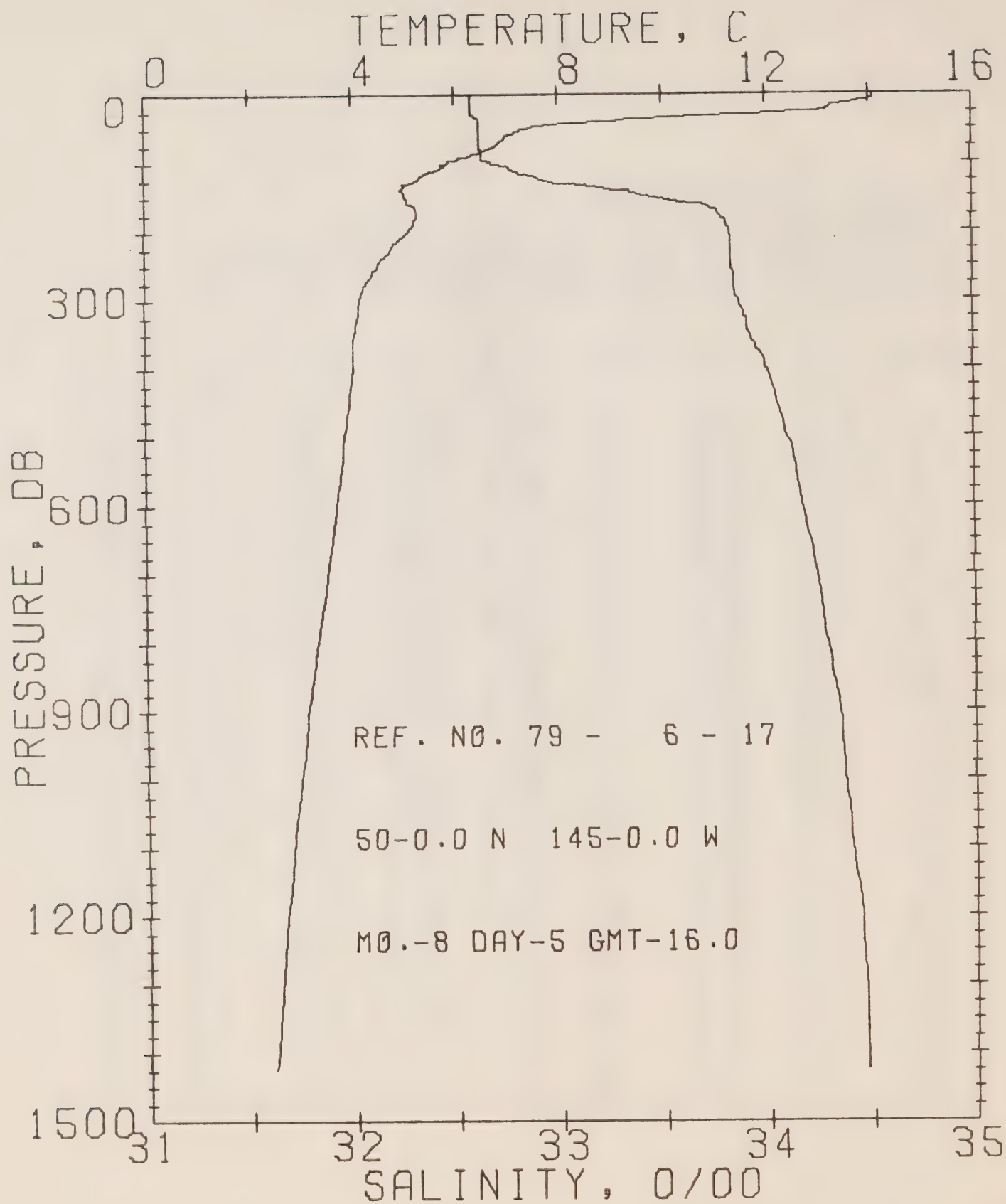
DATE 5/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.0 STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.10	32.57	0	24.31	362.0	.00	.00	1502.
10	13.93	32.58	10	24.36	358.2	.36	.02	1501.
20	13.24	32.58	20	24.50	345.2	.71	.07	1499.
30	11.72	32.58	30	24.79	317.6	1.05	.16	1494.
40	8.59	32.62	40	25.34	264.7	1.33	.26	1483.
50	7.39	32.62	50	25.52	248.2	1.59	.38	1478.
60	7.03	32.62	60	25.57	243.6	1.83	.51	1477.
70	6.86	32.62	70	25.59	241.6	2.07	.67	1477.
80	6.62	32.62	80	25.62	238.7	2.32	.86	1476.
90	6.26	32.63	89	25.67	233.6	2.55	1.06	1474.
100	5.83	32.68	99	25.77	224.9	2.78	1.28	1473.
110	5.63	32.77	109	25.86	215.9	3.00	1.52	1472.
120	5.31	32.86	119	25.99	203.8	3.21	1.77	1471.
130	4.98	33.06	129	26.16	187.1	3.41	2.02	1470.
140	4.98	33.32	139	26.37	167.8	3.59	2.27	1471.
150	5.07	33.45	149	26.46	159.2	3.75	2.51	1472.
160	5.18	33.67	159	26.62	144.0	3.91	2.75	1473.
170	5.28	33.74	169	26.67	139.7	4.05	2.99	1473.
180	5.23	33.78	179	26.70	137.0	4.19	3.23	1473.
190	5.19	33.80	189	26.73	134.3	4.32	3.49	1473.
200	5.07	33.82	199	26.75	132.1	4.46	3.75	1473.
210	4.90	33.83	209	26.78	129.5	4.59	4.03	1472.
220	4.78	33.83	218	26.80	128.2	4.71	4.31	1472.
230	4.72	33.83	228	26.80	127.7	4.84	4.60	1472.
240	4.56	33.83	238	26.82	126.0	4.97	4.91	1472.
250	4.50	33.83	248	26.83	125.4	5.10	5.22	1471.
260	4.39	33.83	258	26.84	123.9	5.22	5.55	1471.
270	4.31	33.84	268	26.86	122.8	5.34	5.88	1471.
280	4.21	33.84	278	26.87	121.9	5.47	6.22	1471.
290	4.16	33.85	288	26.88	120.7	5.59	6.57	1471.
300	4.13	33.86	298	26.89	119.8	5.71	6.94	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 17

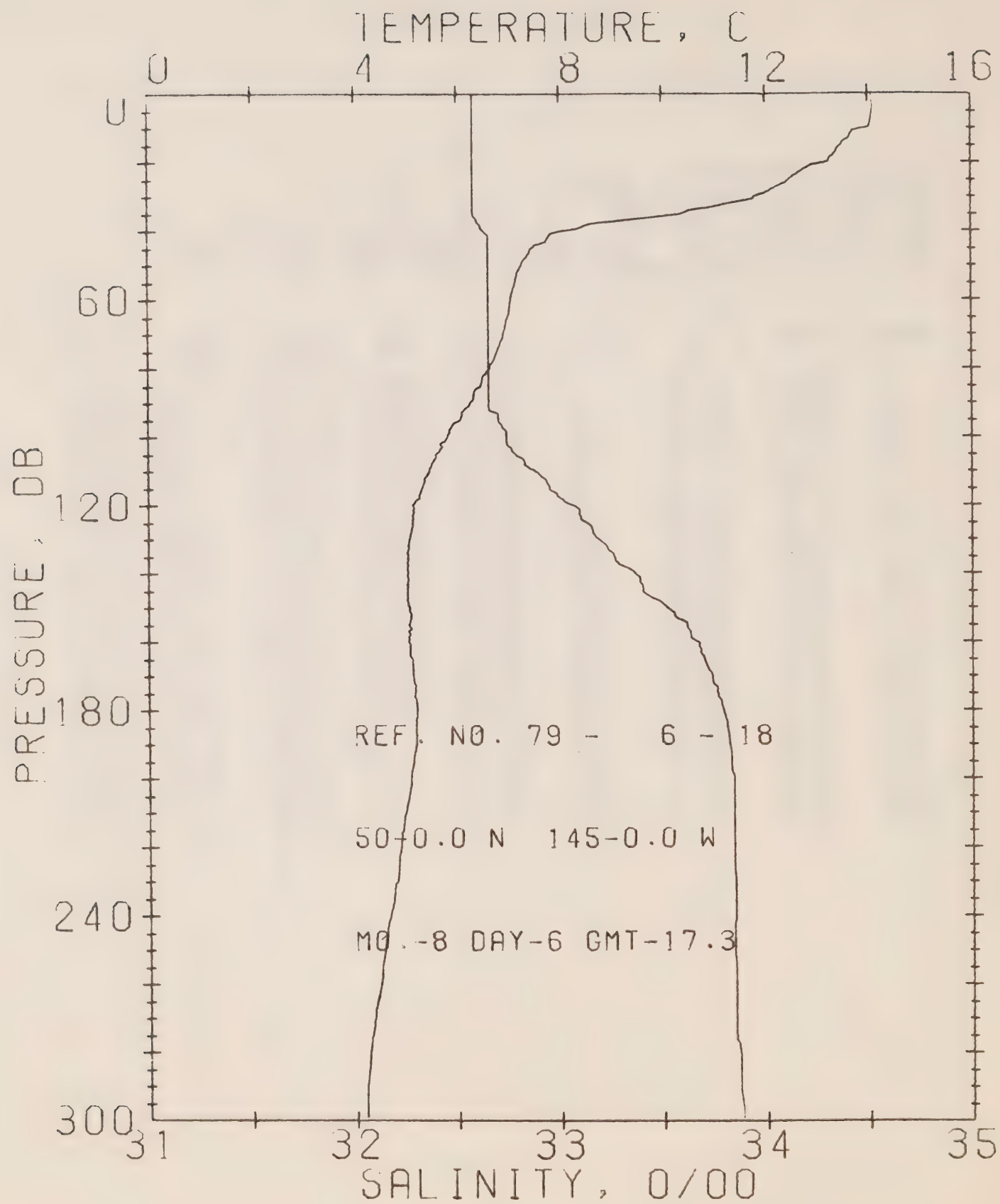
DATE 5/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.0 STATION P

RESULTS OF STP CAST 268 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

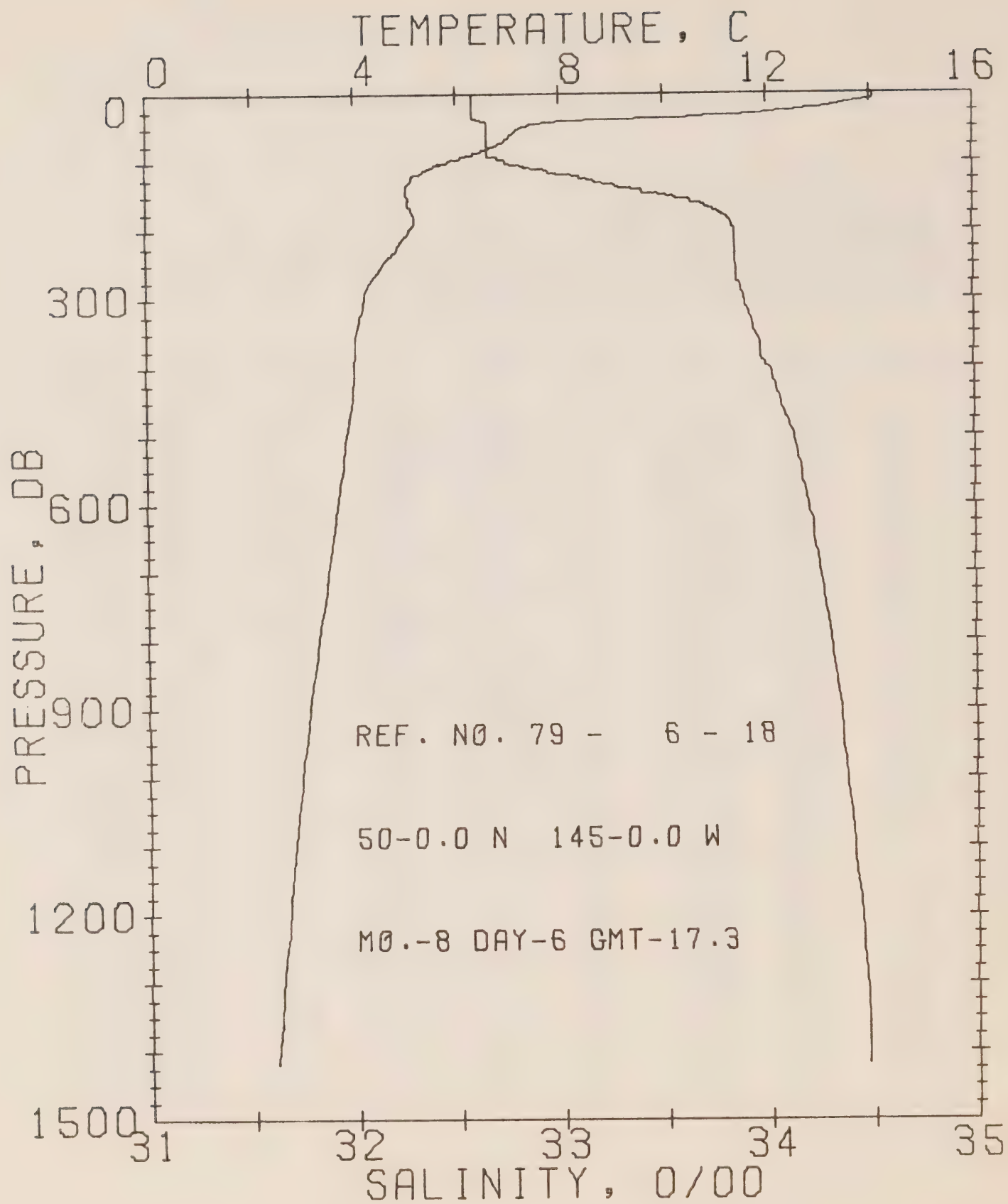
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.10	32.57	0	24.31	362.0	.00	.00	1502.
10	13.93	32.58	10	24.36	358.2	.36	.02	1501.
20	13.24	32.58	20	24.50	345.2	.71	.07	1499.
30	11.72	32.58	30	24.79	317.6	1.05	.16	1494.
50	7.39	32.62	50	25.52	248.2	1.59	.38	1478.
75	6.77	32.62	75	25.60	240.5	2.20	.76	1476.
100	5.83	32.68	99	25.77	224.9	2.78	1.28	1473.
125	5.25	32.92	124	26.03	200.2	3.31	1.89	1471.
150	5.07	33.45	149	26.46	159.2	3.75	2.51	1472.
175	5.29	33.77	174	26.69	138.0	4.12	3.11	1473.
200	5.07	33.82	199	26.75	132.1	4.46	3.75	1473.
225	4.74	33.83	223	26.80	127.9	4.78	4.46	1472.
250	4.50	33.83	248	26.83	125.4	5.10	5.22	1471.
300	4.13	33.86	298	26.89	119.8	5.71	6.94	1471.
400	4.00	33.99	397	27.01	109.5	6.85	11.01	1472.
500	3.81	34.09	496	27.10	101.1	7.90	15.83	1473.
600	3.65	34.16	595	27.18	94.5	8.88	21.29	1474.
800	3.27	34.28	793	27.31	82.8	10.65	33.89	1476.
1000	2.95	34.36	990	27.41	74.7	12.21	48.18	1478.
1200	2.65	34.44	1188	27.49	66.9	13.63	64.04	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 18 DATE 6/ 8/79
 POSITION 50- .0N, 145- .0W GMT 17.3 STATION P
 RESULTS OF STP CAST 188 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.08	32.58	0	24.33	360.9	.00	.00	1501.
10	14.03	32.58	10	24.34	360.2	.36	.02	1501.
20	13.23	32.58	20	24.50	345.0	.71	.07	1499.
30	11.80	32.58	30	24.77	319.1	1.04	.16	1494.
40	7.99	32.63	40	25.44	255.4	1.33	.26	1480.
50	7.25	32.65	50	25.56	244.1	1.58	.37	1478.
60	7.04	32.65	60	25.59	241.5	1.82	.51	1477.
70	6.90	32.65	70	25.61	239.8	2.06	.67	1477.
80	6.62	32.65	80	25.64	236.4	2.30	.85	1476.
90	6.27	32.65	89	25.69	232.2	2.54	1.05	1475.
100	5.79	32.74	99	25.82	219.9	2.76	1.27	1473.
110	5.44	32.89	109	25.98	204.8	2.97	1.50	1472.
120	5.11	33.07	119	26.16	187.7	3.17	1.73	1471.
130	5.06	33.19	129	26.26	177.9	3.36	1.96	1471.
140	5.03	33.37	139	26.40	164.6	3.53	2.20	1471.
150	5.06	33.52	149	26.52	153.8	3.69	2.44	1472.
160	5.04	33.67	159	26.64	142.5	3.84	2.67	1472.
170	5.13	33.73	169	26.68	138.9	3.98	2.91	1473.
180	5.19	33.79	179	26.72	135.5	4.11	3.15	1473.
190	5.16	33.82	189	26.74	132.9	4.25	3.41	1473.
200	5.08	33.84	199	26.77	130.6	4.38	3.67	1473.
210	4.97	33.84	209	26.78	129.5	4.51	3.94	1473.
220	4.86	33.84	218	26.80	128.3	4.64	4.22	1472.
230	4.79	33.85	228	26.81	126.9	4.77	4.51	1472.
240	4.66	33.85	238	26.83	125.6	4.89	4.82	1472.
250	4.54	33.84	248	26.83	125.1	5.02	5.13	1472.
260	4.46	33.85	258	26.85	123.6	5.14	5.45	1471.
270	4.34	33.85	268	26.86	122.4	5.26	5.78	1471.
280	4.24	33.87	278	26.88	120.1	5.39	6.13	1471.
290	4.20	33.87	288	26.89	119.6	5.51	6.47	1471.
300	4.18	33.88	298	26.90	118.6	5.63	6.83	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 18

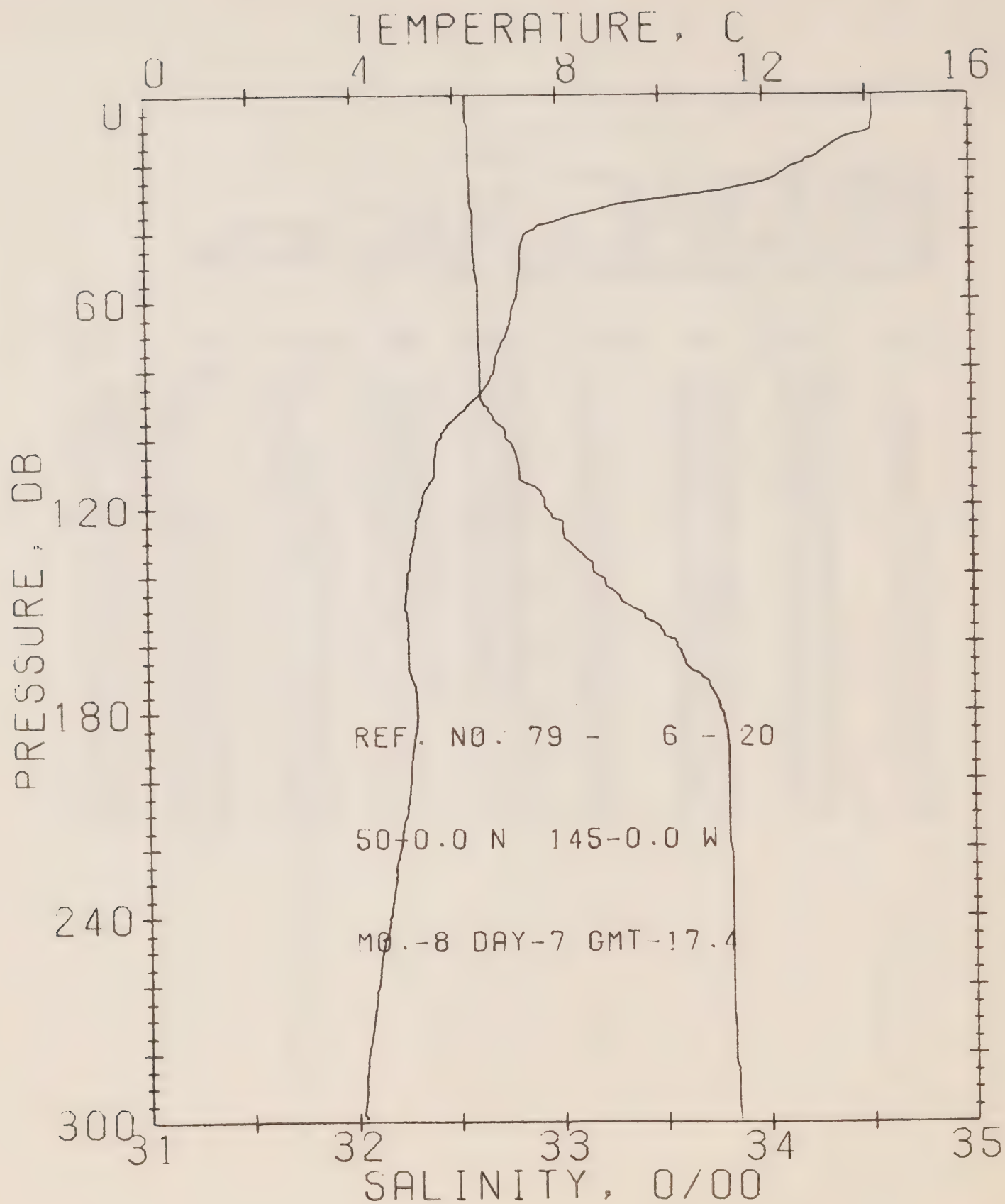
DATE 6/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 285 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.08	32.58	0	24.33	360.9	.00	.00	1501.
10	14.03	32.58	10	24.34	360.2	.36	.02	1501.
20	13.23	32.58	20	24.50	345.0	.71	.07	1499.
30	11.80	32.58	30	24.77	319.1	1.04	.16	1494.
50	7.25	32.65	50	25.56	244.1	1.58	.37	1478.
75	6.78	32.65	75	25.62	238.3	2.18	.76	1476.
100	5.79	32.74	99	25.82	219.9	2.76	1.27	1473.
125	5.11	33.14	124	26.21	182.5	3.27	1.85	1471.
150	5.06	33.52	149	26.52	153.8	3.69	2.44	1472.
175	5.16	33.76	174	26.70	136.8	4.05	3.03	1473.
200	5.08	33.84	199	26.77	130.6	4.38	3.67	1473.
225	4.82	33.84	223	26.80	128.0	4.70	4.37	1472.
250	4.54	33.84	248	26.83	125.1	5.02	5.13	1472.
300	4.18	33.88	298	26.90	118.6	5.63	6.83	1471.
400	4.00	33.99	397	27.01	109.1	6.76	10.87	1472.
500	3.81	34.12	496	27.13	98.7	7.80	15.64	1473.
600	3.64	34.19	595	27.20	92.7	8.76	21.00	1474.
800	3.26	34.30	793	27.32	81.8	10.50	33.38	1476.
1000	2.92	34.37	990	27.41	74.0	12.05	47.60	1478.
1200	2.65	34.43	1188	27.49	67.4	13.47	63.42	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 20

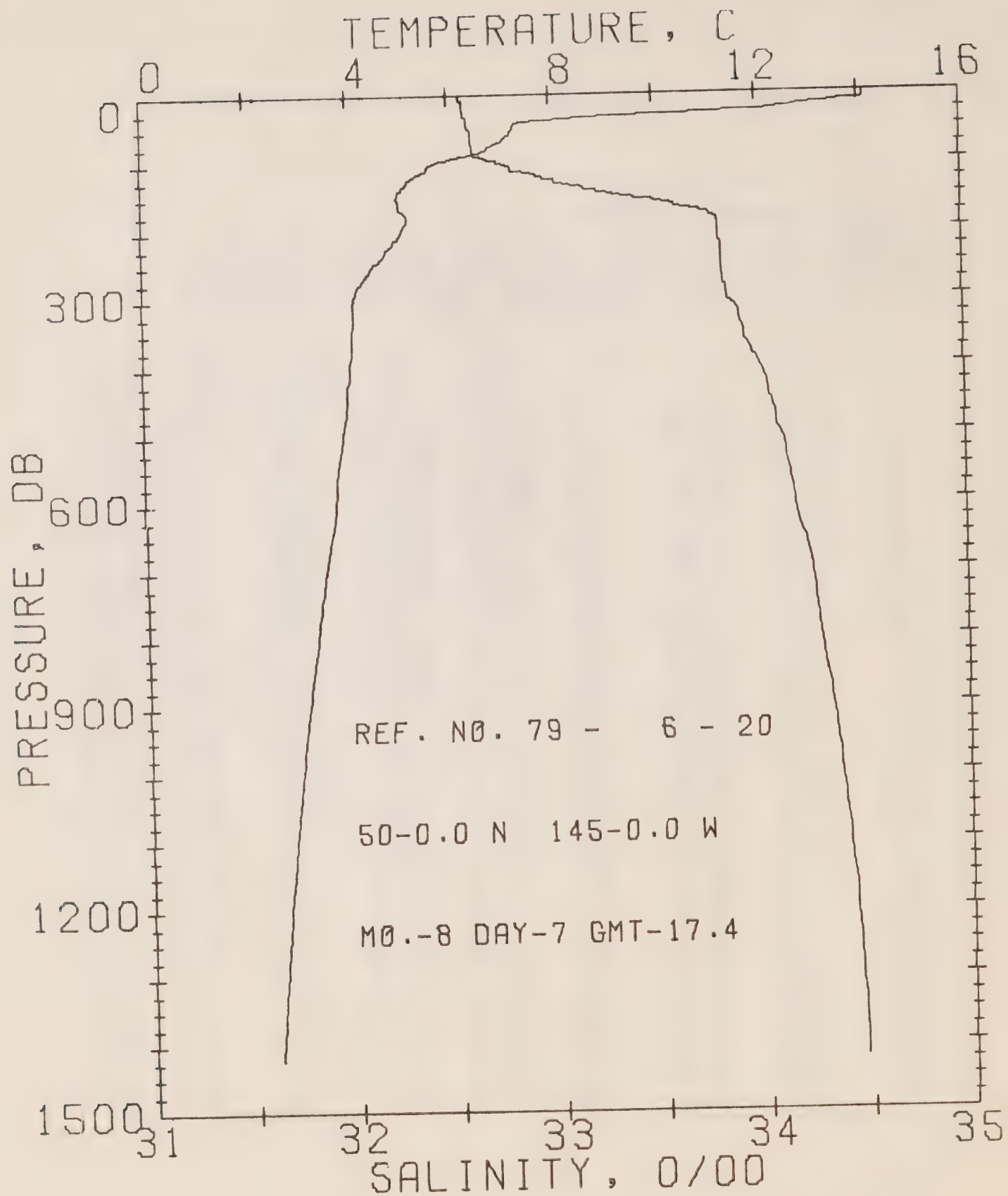
DATE 7/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 180 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.12	32.56	0	24.30	363.2	.00	.00	1502.
10	14.10	32.57	10	24.31	362.3	.36	.02	1502.
20	12.77	32.57	20	24.58	337.1	.71	.07	1497.
30	10.19	32.58	30	25.06	291.9	1.03	.15	1488.
40	7.42	32.59	40	25.49	250.7	1.30	.25	1478.
50	7.27	32.60	50	25.52	248.1	1.55	.36	1478.
60	7.17	32.61	60	25.54	246.2	1.79	.50	1478.
70	6.99	32.61	70	25.56	244.0	2.04	.66	1477.
80	6.76	32.62	80	25.60	240.5	2.28	.85	1476.
90	6.27	32.63	89	25.67	233.7	2.52	1.05	1474.
100	5.70	32.74	99	25.83	218.9	2.74	1.27	1472.
110	5.58	32.81	109	25.90	212.4	2.96	1.50	1472.
120	5.31	32.93	119	26.02	200.4	3.16	1.74	1471.
130	5.15	33.04	129	26.13	190.5	3.36	1.99	1471.
140	5.02	33.18	139	26.26	178.7	3.54	2.24	1471.
150	4.97	33.36	149	26.40	164.8	3.71	2.50	1471.
160	5.03	33.56	159	26.55	150.6	3.87	2.75	1472.
170	5.10	33.68	169	26.64	142.5	4.02	2.99	1472.
180	5.19	33.78	179	26.71	136.2	4.16	3.24	1473.
190	5.11	33.81	189	26.74	133.1	4.29	3.49	1473.
200	5.07	33.81	199	26.75	132.8	4.42	3.76	1473.
210	4.98	33.81	209	26.76	131.9	4.56	4.04	1473.
220	4.85	33.82	218	26.78	130.0	4.69	4.32	1472.
230	4.74	33.82	228	26.79	128.6	4.82	4.62	1472.
240	4.65	33.82	238	26.80	127.7	4.95	4.93	1472.
250	4.48	33.82	248	26.82	125.9	5.07	5.24	1471.
260	4.39	33.82	258	26.83	125.1	5.20	5.57	1471.
270	4.30	33.82	268	26.84	123.8	5.32	5.90	1471.
280	4.18	33.83	278	26.86	122.4	5.45	6.25	1471.
290	4.13	33.84	288	26.87	121.1	5.57	6.60	1471.
300	4.12	33.85	298	26.88	120.4	5.69	6.97	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 20

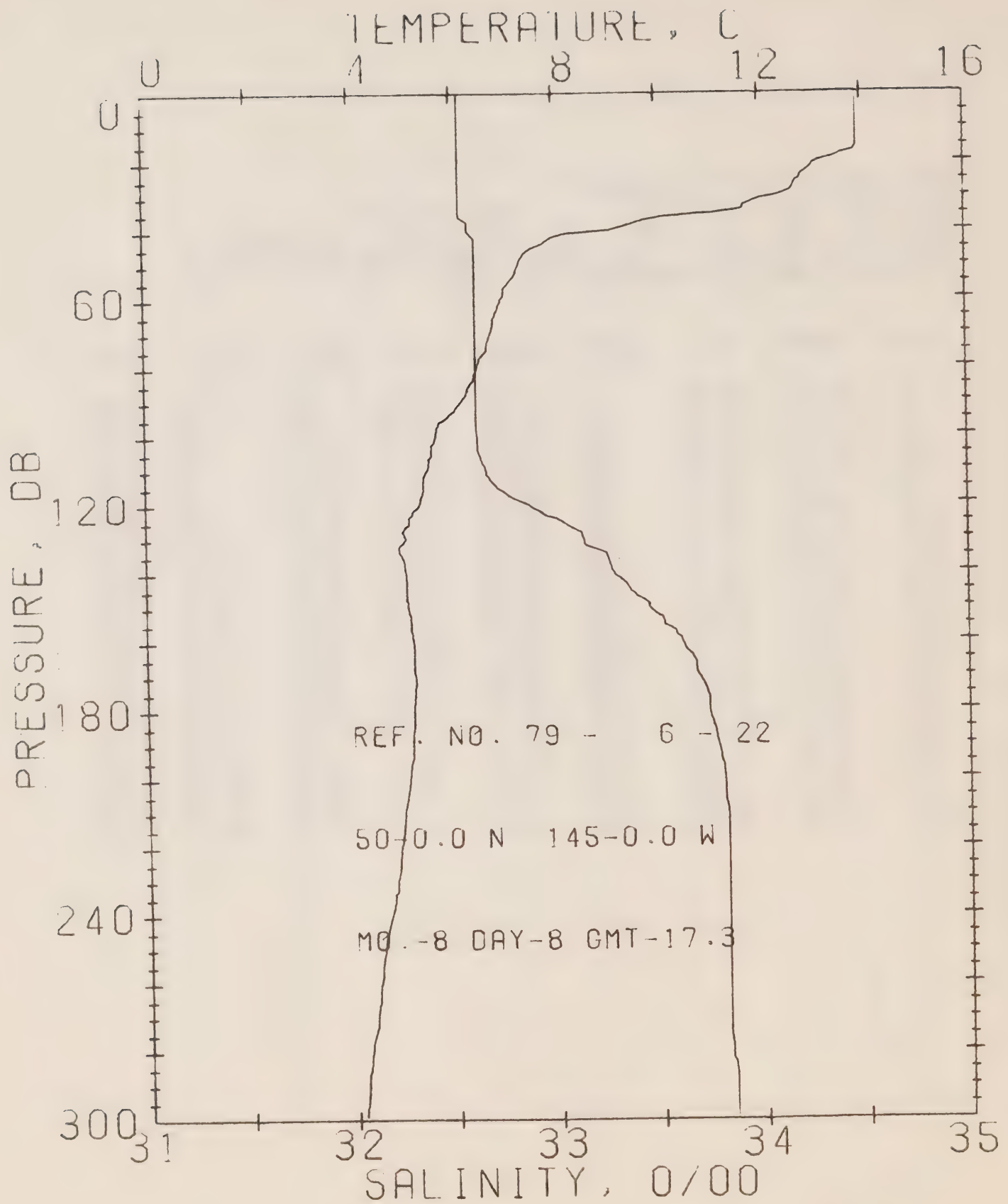
DATE 7/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 277 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.12	32.56	0	24.30	363.2	.00	.00	1502.
10	14.10	32.57	10	24.31	362.3	.36	.02	1502.
20	12.77	32.57	20	24.58	337.1	.71	.07	1497.
30	10.19	32.58	30	25.06	291.9	1.03	.15	1488.
50	7.27	32.60	50	25.52	248.1	1.55	.36	1478.
75	6.82	32.62	75	25.59	241.3	2.16	.75	1476.
100	5.70	32.74	99	25.83	218.9	2.74	1.27	1472.
125	5.20	33.01	124	26.10	193.2	3.26	1.86	1471.
150	4.97	33.36	149	26.40	164.8	3.71	2.50	1471.
175	5.18	33.74	174	26.68	139.0	4.09	3.12	1473.
200	5.07	33.81	199	26.75	132.8	4.42	3.76	1473.
225	4.78	33.82	223	26.79	129.0	4.75	4.47	1472.
250	4.48	33.82	248	26.82	125.9	5.07	5.24	1471.
300	4.12	33.85	298	26.88	120.4	5.69	6.97	1471.
400	4.00	34.00	397	27.01	108.9	6.83	11.05	1472.
500	3.83	34.09	496	27.10	101.0	7.88	15.86	1473.
600	3.68	34.16	595	27.17	95.1	8.86	21.32	1474.
800	3.27	34.28	793	27.31	83.1	10.63	33.91	1476.
1000	2.92	34.37	990	27.41	74.1	12.20	48.25	1478.
1200	2.66	34.43	1188	27.48	67.8	13.61	64.07	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 22

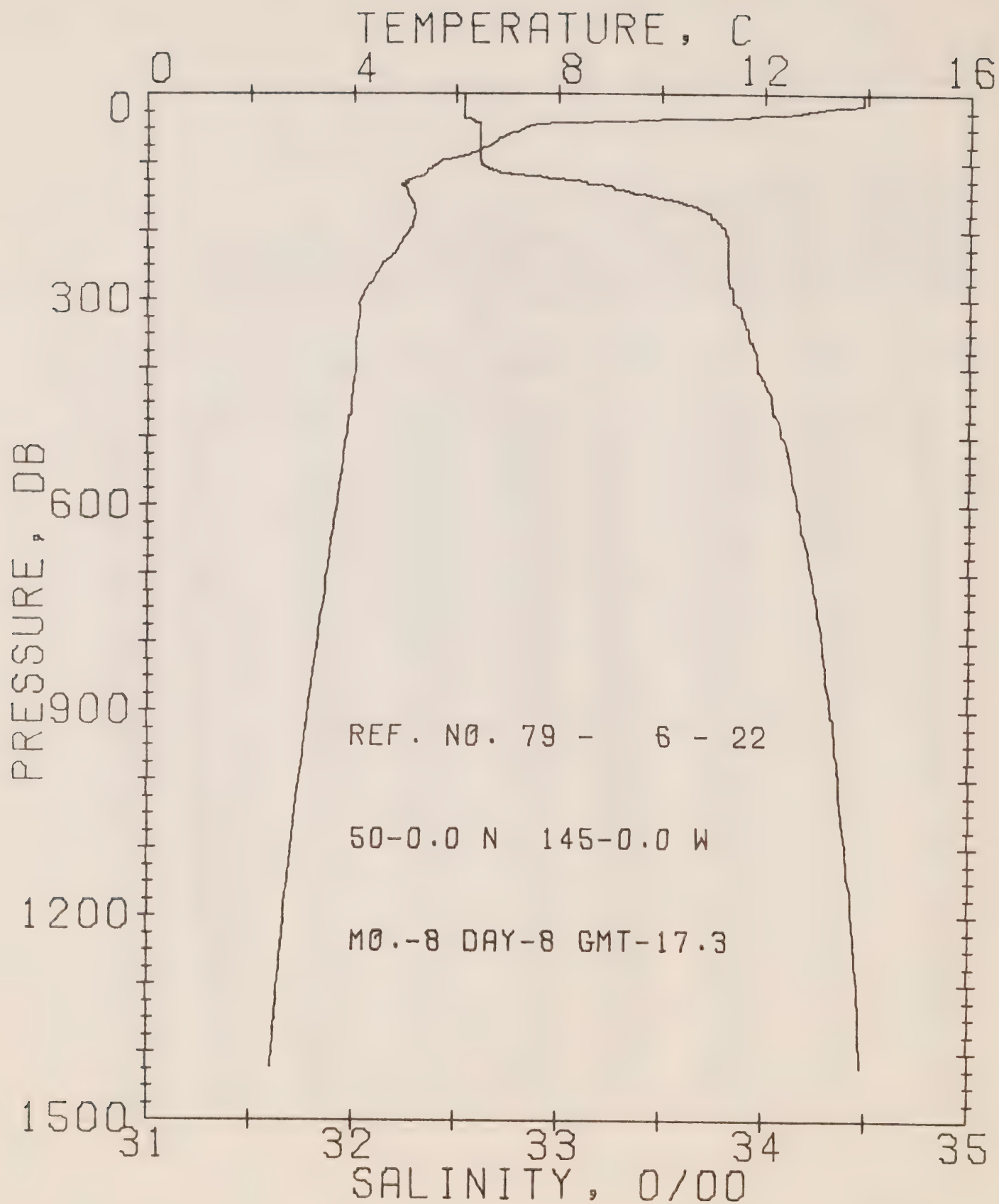
DATE 8/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.91	32.54	0	24.33	360.5	.00	.00	1501.
10	13.93	32.54	10	24.33	361.2	.36	.02	1501.
20	13.17	32.54	20	24.48	346.8	.72	.07	1499.
30	12.38	32.54	30	24.63	332.4	1.06	.16	1496.
40	9.06	32.58	40	25.24	274.6	1.36	.27	1484.
50	7.31	32.61	50	25.52	247.9	1.62	.38	1478.
60	6.96	32.61	60	25.57	243.5	1.86	.52	1477.
70	6.74	32.61	70	25.60	240.8	2.11	.68	1476.
80	6.49	32.61	80	25.63	237.7	2.34	.86	1475.
90	6.15	32.61	89	25.67	233.8	2.58	1.07	1474.
100	5.65	32.62	99	25.74	227.3	2.81	1.29	1472.
110	5.49	32.66	109	25.79	222.6	3.04	1.53	1472.
120	5.33	32.87	119	25.98	205.1	3.25	1.79	1471.
130	5.06	33.13	129	26.21	182.8	3.45	2.03	1471.
140	5.06	33.28	139	26.33	171.6	3.62	2.27	1471.
150	5.09	33.45	149	26.46	159.4	3.79	2.52	1472.
160	5.19	33.61	159	26.57	149.0	3.94	2.76	1473.
170	5.21	33.68	169	26.63	143.8	4.09	3.01	1473.
180	5.18	33.73	179	26.67	139.8	4.23	3.26	1473.
190	5.14	33.78	189	26.71	136.0	4.36	3.52	1473.
200	5.07	33.81	199	26.75	132.9	4.50	3.78	1473.
210	4.97	33.82	209	26.77	131.0	4.63	4.06	1473.
220	4.88	33.82	218	26.78	130.1	4.76	4.35	1473.
230	4.81	33.82	228	26.78	129.4	4.89	4.64	1472.
240	4.67	33.82	238	26.80	128.0	5.02	4.95	1472.
250	4.55	33.82	248	26.81	126.7	5.15	5.27	1472.
260	4.46	33.82	258	26.82	125.9	5.27	5.60	1471.
270	4.38	33.82	268	26.83	125.1	5.40	5.94	1471.
280	4.27	33.83	278	26.85	123.3	5.52	6.29	1471.
290	4.19	33.85	288	26.88	121.0	5.65	6.64	1471.
300	4.12	33.85	298	26.88	120.3	5.77	7.00	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 22

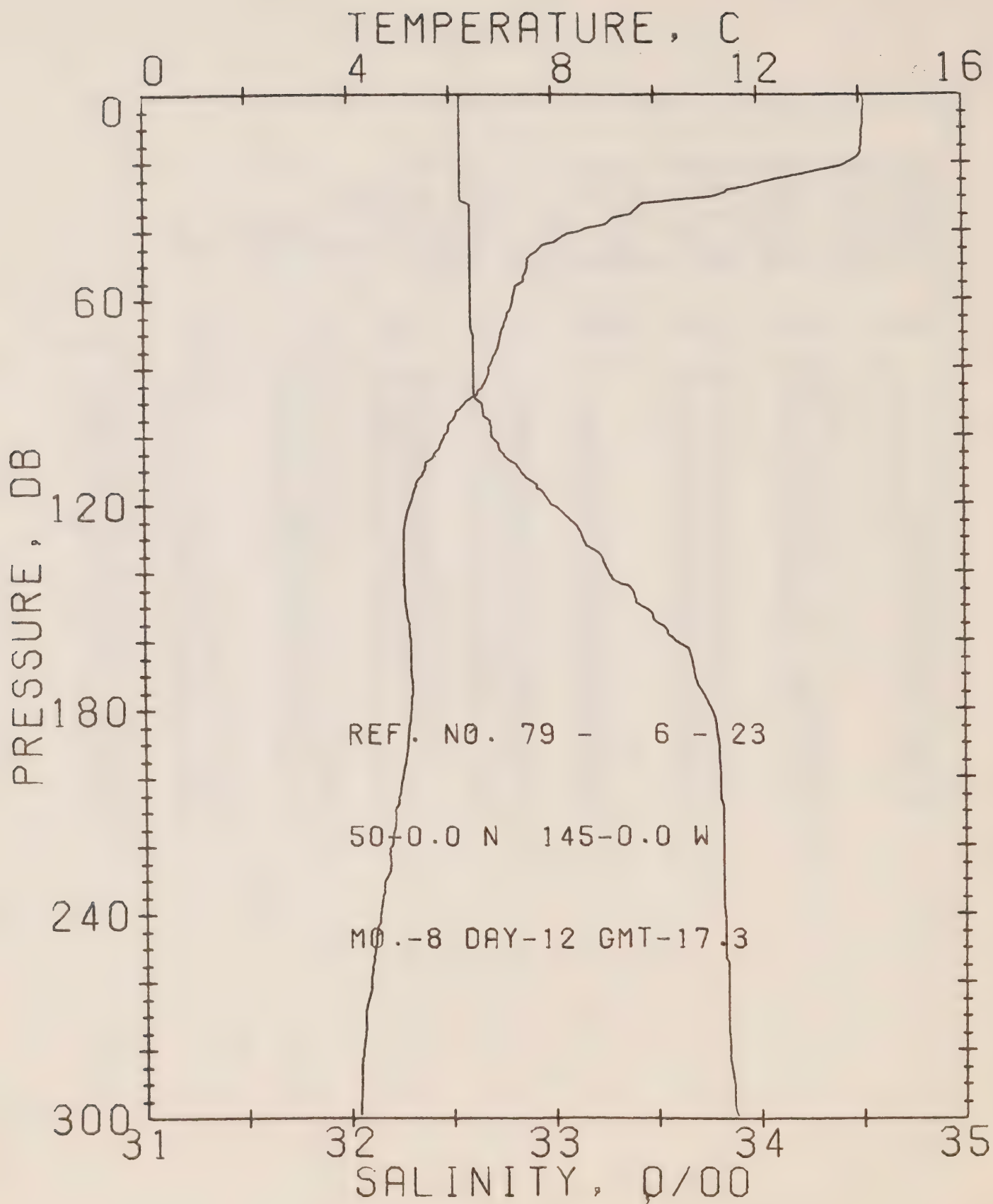
DATE 8/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 298 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.91	32.54	0	24.33	360.5	.00	.00	1501.
10	13.93	32.54	10	24.33	361.2	.36	.02	1501.
20	13.17	32.54	20	24.48	346.8	.72	.07	1499.
30	12.38	32.54	30	24.63	332.4	1.06	.16	1496.
50	7.31	32.61	50	25.52	247.9	1.62	.38	1478.
75	6.66	32.61	75	25.61	239.9	2.23	.77	1476.
100	5.65	32.62	99	25.74	227.3	2.81	1.29	1472.
125	5.12	33.03	124	26.13	190.9	3.35	1.91	1471.
150	5.09	33.45	149	26.46	159.4	3.79	2.52	1472.
175	5.20	33.72	174	26.66	140.4	4.16	3.13	1473.
200	5.07	33.81	199	26.75	132.9	4.50	3.78	1473.
225	4.86	33.82	223	26.78	129.9	4.83	4.49	1473.
250	4.55	33.82	248	26.81	126.7	5.15	5.27	1472.
300	4.12	33.85	298	26.88	120.3	5.77	7.00	1471.
400	4.04	33.97	397	26.99	111.3	6.92	11.10	1472.
500	3.84	34.08	496	27.10	101.7	7.98	15.97	1473.
600	3.67	34.16	595	27.17	94.8	8.96	21.45	1474.
800	3.28	34.29	793	27.31	82.8	10.73	34.07	1476.
1000	2.94	34.37	990	27.41	74.4	12.31	48.46	1478.
1200	2.64	34.43	1188	27.49	67.4	13.72	64.34	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 23

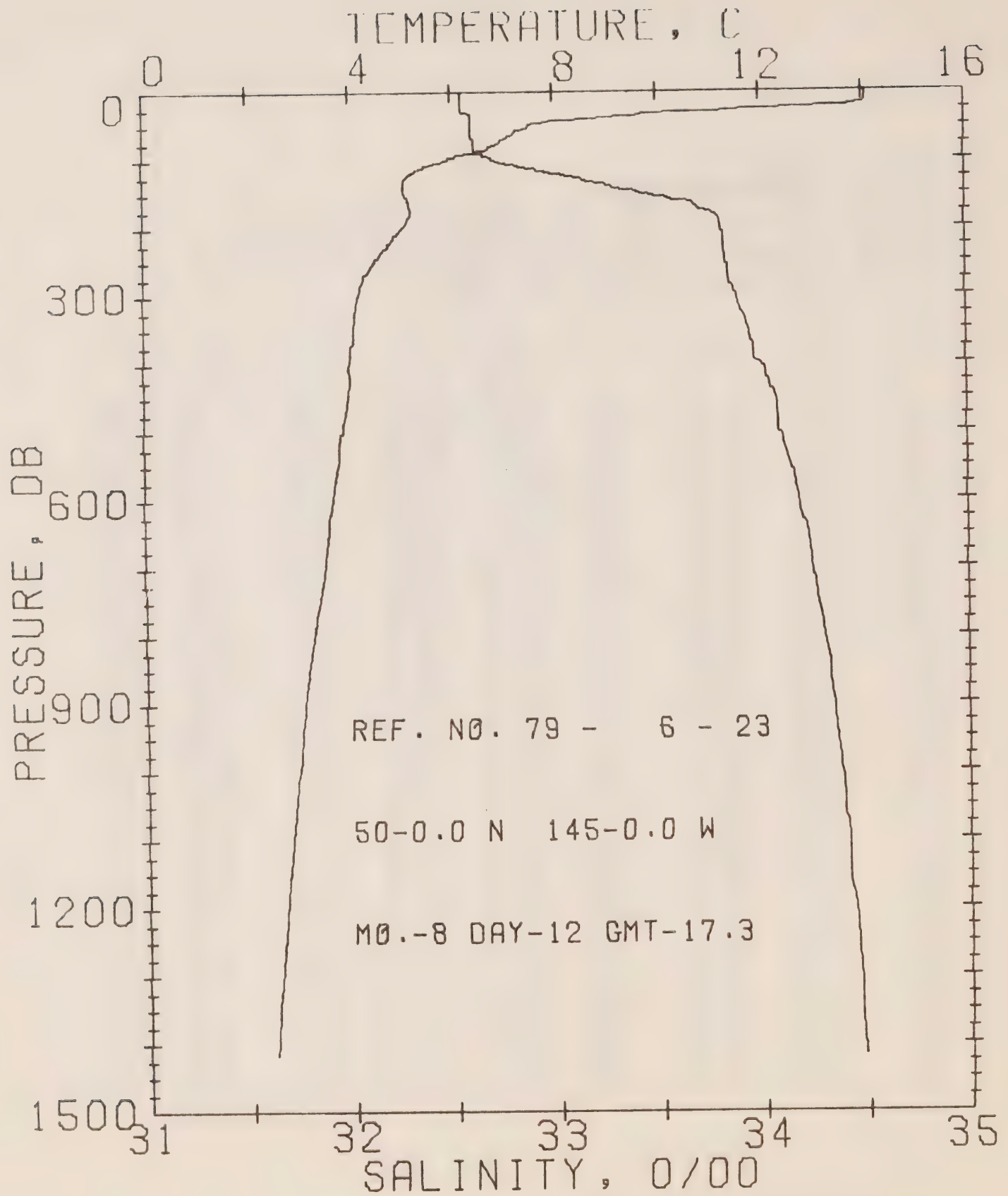
DATE 12/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 196 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.09	32.55	0	24.30	363.3	.00	.00	1501.
10	14.07	32.55	10	24.31	363.1	.36	.02	1502.
20	13.75	32.55	20	24.37	357.2	.73	.07	1501.
30	11.10	32.55	30	24.88	309.2	1.06	.16	1492.
40	8.55	32.60	40	25.33	265.6	1.34	.26	1483.
50	7.51	32.60	50	25.48	251.3	1.59	.37	1479.
60	7.22	32.60	60	25.52	247.6	1.84	.51	1478.
70	6.98	32.61	70	25.56	243.9	2.09	.68	1477.
80	6.76	32.61	80	25.59	241.2	2.33	.86	1476.
90	6.30	32.65	89	25.68	232.6	2.57	1.07	1475.
100	5.87	32.70	99	25.78	223.8	2.80	1.29	1473.
110	5.48	32.84	109	25.93	209.0	3.02	1.52	1472.
120	5.20	32.99	119	26.08	194.7	3.22	1.76	1471.
130	5.07	33.14	129	26.22	181.8	3.40	2.00	1471.
140	5.06	33.27	139	26.32	172.4	3.58	2.24	1471.
150	5.10	33.43	149	26.45	160.7	3.75	2.48	1472.
160	5.19	33.59	159	26.56	150.1	3.90	2.73	1473.
170	5.21	33.68	169	26.63	143.5	4.05	2.97	1473.
180	5.20	33.77	179	26.70	137.0	4.19	3.22	1473.
190	5.11	33.80	189	26.73	133.9	4.32	3.48	1473.
200	5.02	33.81	199	26.75	132.2	4.45	3.74	1473.
210	4.85	33.82	209	26.78	129.7	4.59	4.02	1472.
220	4.79	33.82	218	26.79	129.1	4.72	4.30	1472.
230	4.66	33.82	228	26.80	127.8	4.84	4.60	1472.
240	4.56	33.83	238	26.82	126.3	4.97	4.90	1472.
250	4.45	33.83	248	26.83	124.9	5.10	5.22	1471.
260	4.37	33.84	258	26.85	123.4	5.22	5.54	1471.
270	4.27	33.84	268	26.86	122.5	5.34	5.87	1471.
280	4.22	33.85	278	26.87	121.2	5.47	6.21	1471.
290	4.18	33.87	288	26.89	119.4	5.59	6.56	1471.
300	4.15	33.88	298	26.90	118.4	5.71	6.92	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 23

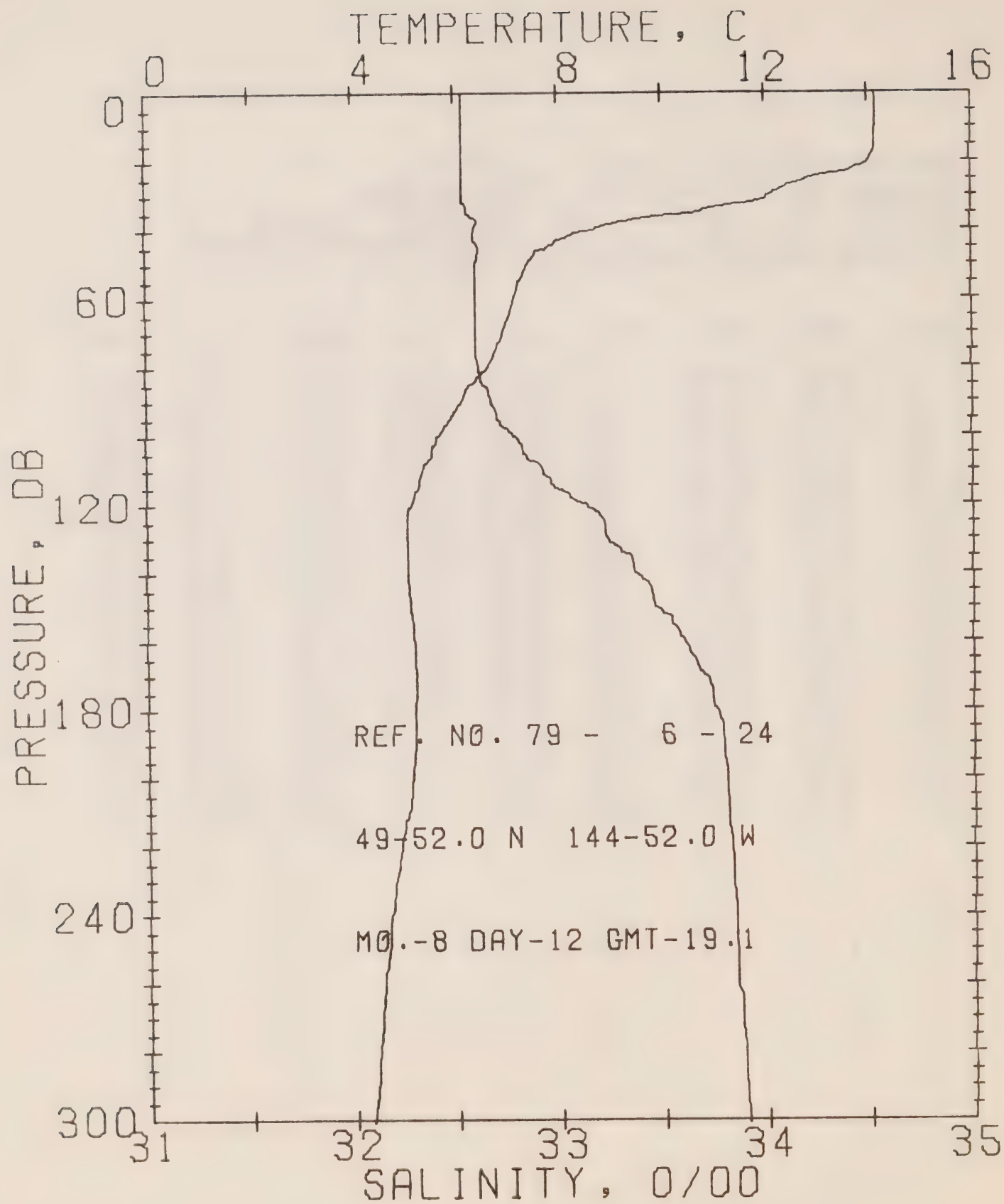
DATE 12/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 306 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.09	32.55	0	24.30	363.3	.00	.00	1501.
10	14.07	32.55	10	24.31	363.1	.36	.02	1502.
20	13.75	32.55	20	24.37	357.2	.73	.07	1501.
30	11.10	32.55	30	24.88	309.2	1.06	.16	1492.
50	7.51	32.60	50	25.48	251.3	1.59	.37	1479.
75	6.92	32.61	75	25.57	243.1	2.21	.77	1477.
100	5.87	32.70	99	25.78	223.8	2.80	1.29	1473.
125	5.10	33.09	124	26.18	185.9	3.31	1.88	1471.
150	5.10	33.43	149	26.45	160.7	3.75	2.48	1472.
175	5.23	33.72	174	26.66	141.0	4.12	3.10	1473.
200	5.02	33.81	199	26.75	132.2	4.45	3.74	1473.
225	4.78	33.82	223	26.79	129.0	4.78	4.45	1472.
250	4.45	33.83	248	26.83	124.9	5.10	5.22	1471.
300	4.15	33.88	298	26.90	118.4	5.71	6.92	1471.
400	3.96	33.99	397	27.01	109.3	6.85	10.98	1472.
500	3.82	34.08	496	27.10	101.7	7.89	15.77	1473.
600	3.62	34.17	595	27.19	93.7	8.86	21.20	1474.
800	3.22	34.29	793	27.32	81.5	10.61	33.62	1476.
1000	2.92	34.37	990	27.41	73.7	12.15	47.77	1478.
1200	2.66	34.43	1188	27.49	67.4	13.56	63.57	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 24

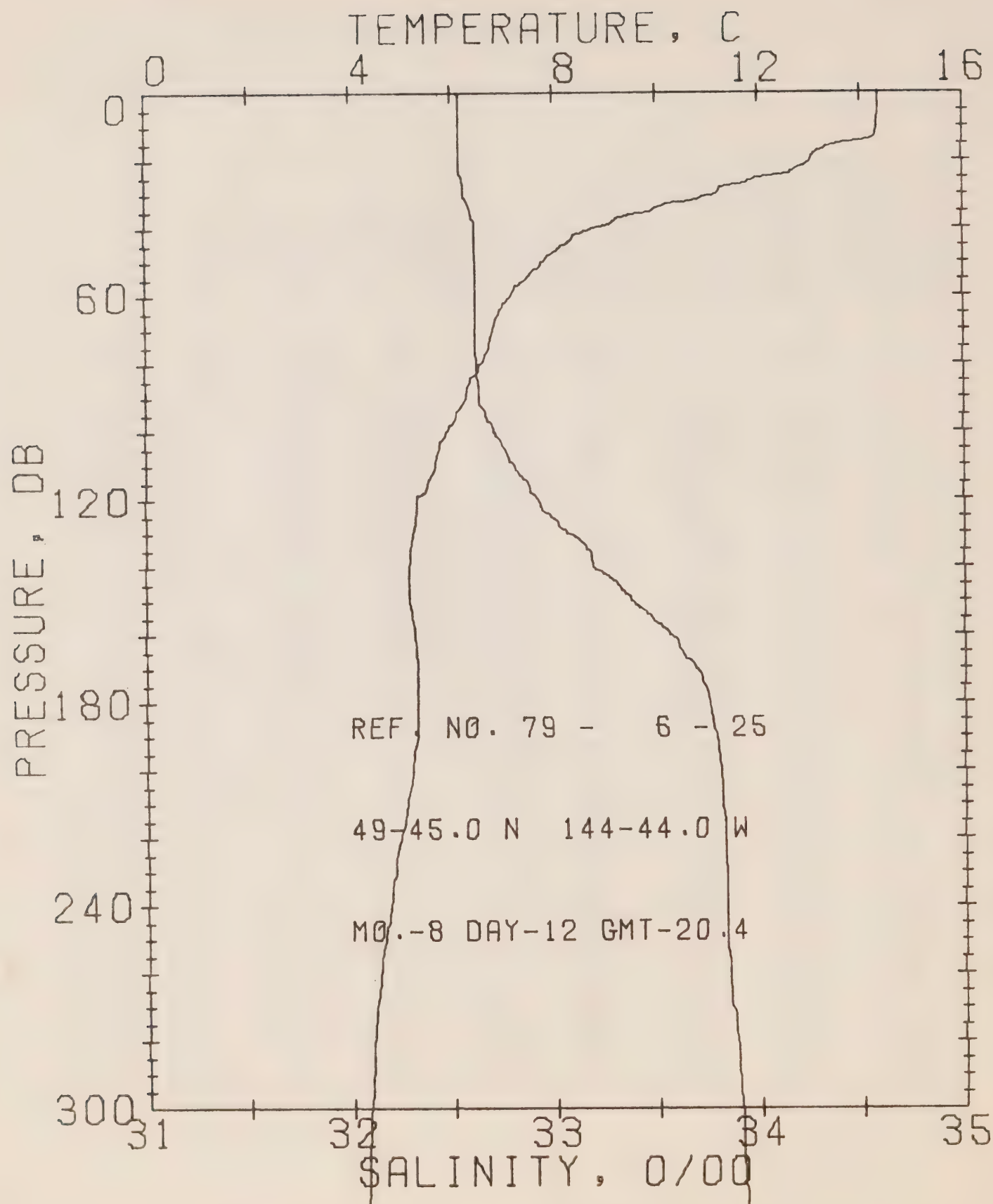
DATE 12/ 8/79

POSITION 49-52.0N, 144-52.0W GMT 19.1 STATION E3

RESULTS OF STP CAST 173 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.16	32.54	0	24.28	365.4	.00	.00	1502.
10	14.15	32.54	10	24.28	365.5	.37	.02	1502.
20	13.99	32.54	20	24.31	362.6	.73	.07	1501.
30	12.06	32.54	30	24.69	326.6	1.07	.16	1495.
40	8.67	32.60	40	25.32	267.3	1.37	.27	1483.
50	7.40	32.60	50	25.50	249.8	1.63	.38	1478.
60	7.13	32.60	60	25.54	246.4	1.87	.52	1477.
70	6.92	32.60	70	25.57	243.8	2.12	.68	1477.
80	6.61	32.61	80	25.61	239.3	2.36	.87	1476.
90	6.10	32.67	89	25.73	228.7	2.59	1.07	1474.
100	5.64	32.76	99	25.87	215.2	2.82	1.29	1472.
110	5.34	32.92	109	26.01	201.4	3.03	1.51	1471.
120	5.12	33.13	119	26.20	183.3	3.22	1.74	1471.
130	5.06	33.23	129	26.29	175.2	3.40	1.97	1471.
140	5.08	33.36	139	26.39	165.9	3.57	2.20	1471.
150	5.11	33.46	149	26.47	158.9	3.73	2.44	1472.
160	5.19	33.60	159	26.57	149.4	3.88	2.68	1473.
170	5.22	33.69	169	26.64	143.1	4.03	2.92	1473.
180	5.18	33.75	179	26.69	138.3	4.17	3.18	1473.
190	5.16	33.79	189	26.72	135.2	4.31	3.43	1473.
200	5.11	33.80	199	26.73	134.0	4.44	3.70	1473.
210	5.01	33.81	209	26.75	132.2	4.57	3.98	1473.
220	4.87	33.82	218	26.78	130.0	4.70	4.27	1472.
230	4.77	33.83	228	26.80	128.2	4.83	4.56	1472.
240	4.68	33.84	238	26.82	126.6	4.96	4.87	1472.
250	4.62	33.85	248	26.83	125.5	5.09	5.18	1472.
260	4.53	33.85	258	26.84	124.4	5.21	5.51	1472.
270	4.48	33.87	268	26.86	122.4	5.33	5.84	1472.
280	4.43	33.88	278	26.87	121.2	5.46	6.18	1472.
290	4.38	33.89	288	26.88	120.4	5.58	6.53	1472.
300	4.31	33.90	298	26.90	118.7	5.70	6.89	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 25

DATE 12/ 8/79

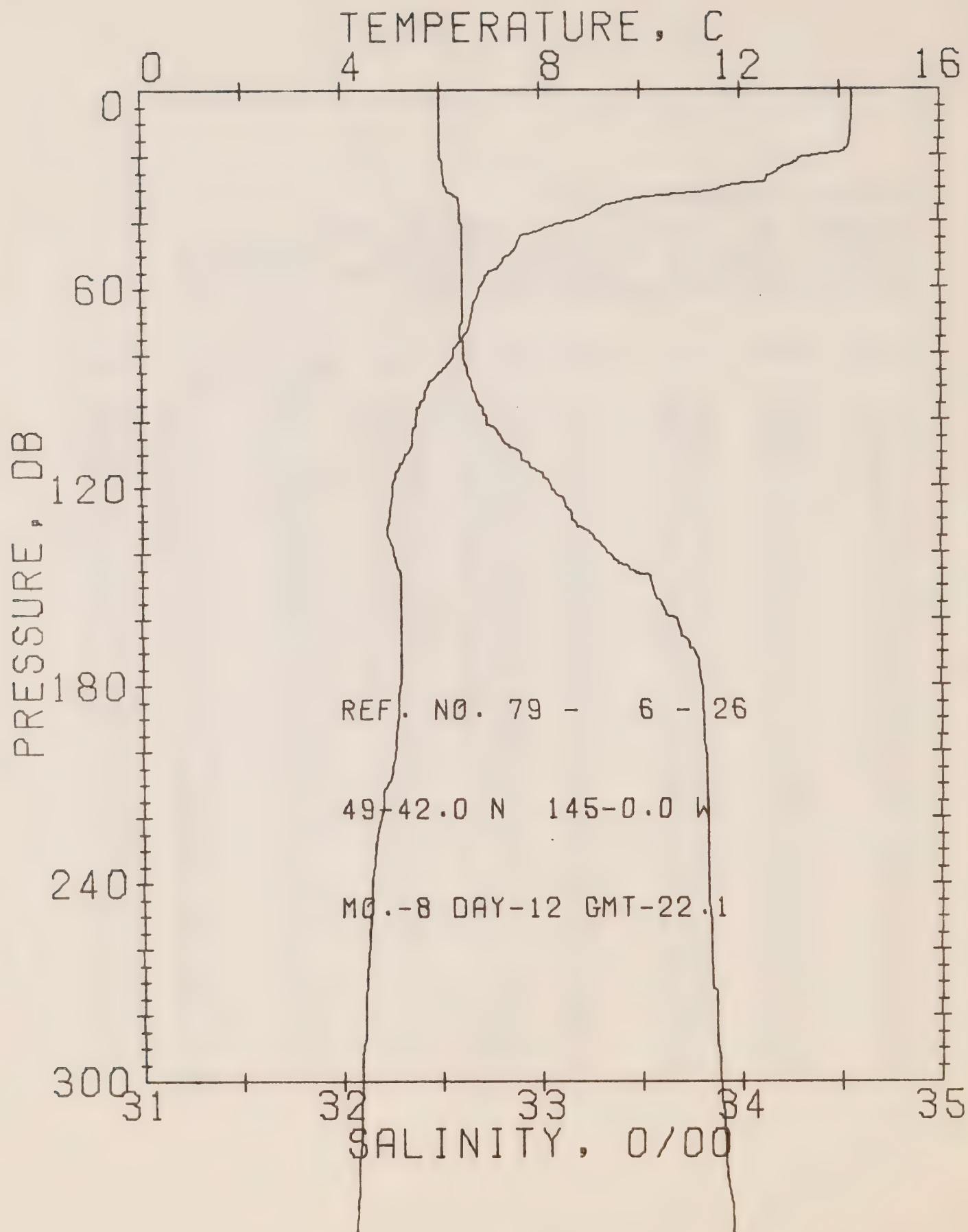
POSITION 49-45.0N, 144-44.0W GMT 20.4

STATION E4

RESULTS OF STP CAST 108 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.37	32.54	0	24.23	369.6	.00	.00	1502.
10	14.31	32.54	10	24.25	368.7	.37	.02	1502.
20	13.02	32.54	20	24.51	344.0	.73	.07	1498.
30	11.14	32.56	30	24.88	309.1	1.05	.16	1492.
40	8.74	32.61	40	25.31	267.6	1.34	.26	1483.
50	7.77	32.62	50	25.46	253.3	1.60	.38	1480.
60	7.13	32.62	60	25.55	244.9	1.85	.52	1477.
70	6.80	32.61	70	25.59	241.2	2.09	.68	1476.
80	6.54	32.62	80	25.63	237.7	2.33	.86	1475.
90	6.28	32.63	89	25.67	233.9	2.57	1.06	1475.
100	5.88	32.70	99	25.78	224.0	2.79	1.29	1473.
110	5.65	32.80	109	25.88	213.9	3.01	1.52	1473.
120	5.30	32.91	119	26.01	201.8	3.22	1.76	1471.
130	5.21	33.06	129	26.14	189.7	3.42	2.01	1471.
140	5.13	33.18	139	26.24	179.9	3.60	2.26	1471.
150	5.15	33.37	149	26.39	166.0	3.77	2.52	1472.
160	5.25	33.55	159	26.52	153.8	3.93	2.77	1473.
170	5.30	33.68	169	26.62	144.8	4.08	3.02	1473.
180	5.30	33.75	179	26.67	139.9	4.22	3.28	1473.
190	5.27	33.78	189	26.70	137.2	4.36	3.54	1474.
200	5.18	33.80	199	26.73	134.8	4.50	3.81	1473.
210	5.06	33.81	209	26.75	132.8	4.63	4.09	1473.
220	4.93	33.82	218	26.77	130.6	4.76	4.37	1473.
230	4.82	33.83	228	26.79	128.9	4.89	4.67	1472.
240	4.72	33.83	238	26.80	127.8	5.02	4.98	1472.
250	4.60	33.83	248	26.82	126.5	5.15	5.30	1472.
260	4.51	33.84	258	26.83	124.9	5.27	5.62	1472.
270	4.44	33.85	268	26.85	123.5	5.40	5.96	1472.
280	4.38	33.88	278	26.88	121.0	5.52	6.30	1472.
290	4.35	33.88	288	26.89	120.1	5.64	6.65	1472.
300	4.31	33.90	298	26.90	118.9	5.76	7.01	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 26

DATE 12/ 8/79

POSITION 49-42.0N, 145- .0W

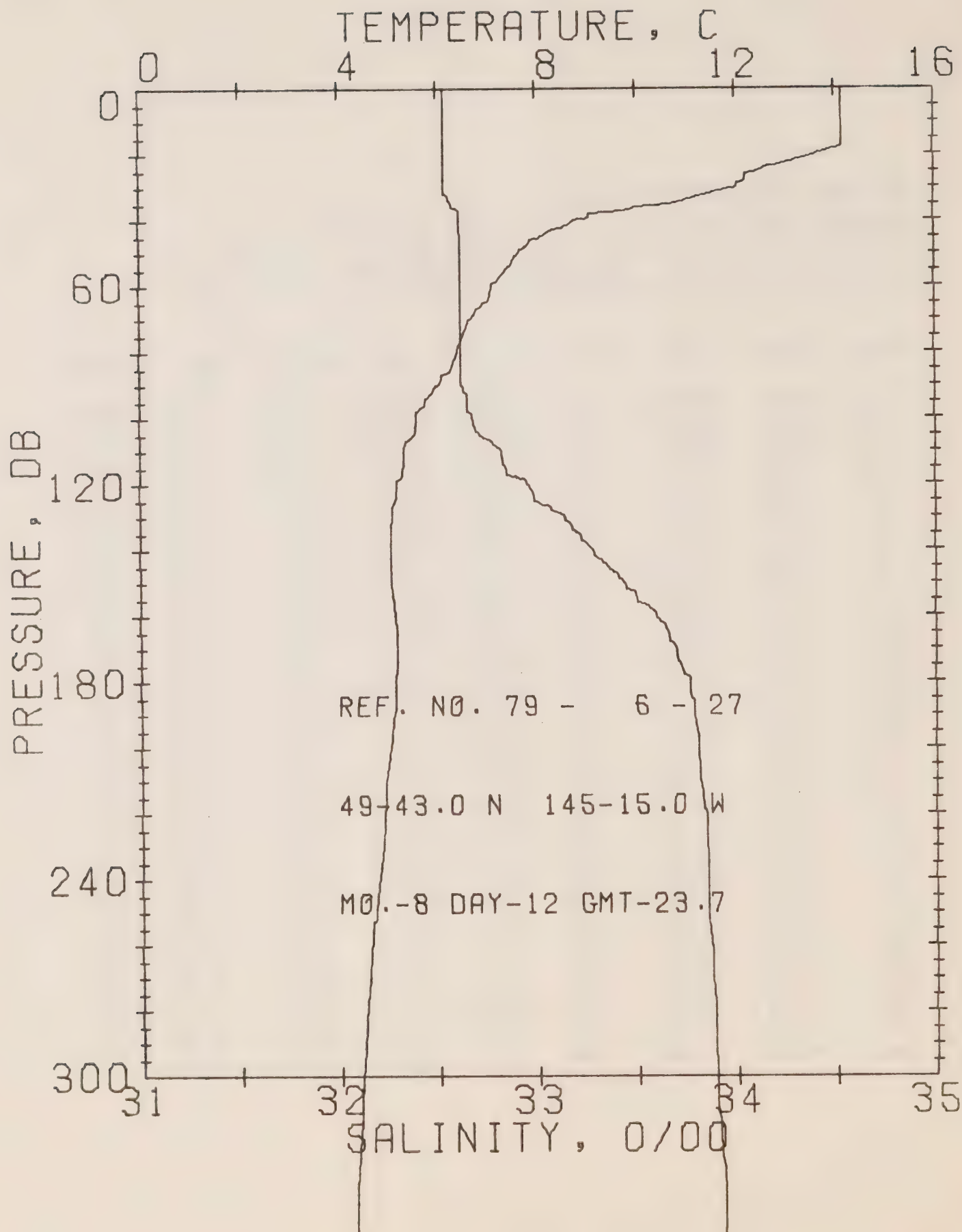
GMT 22.1

STATION C1

RESULTS OF STP CAST 166 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.26	32.50	0	24.23	370.3	.00	.00	1502.
10	14.22	32.50	10	24.23	369.8	.37	.02	1502.
20	13.47	32.50	20	24.39	355.4	.74	.08	1500.
30	11.62	32.53	30	24.77	319.6	1.08	.16	1494.
40	8.48	32.60	40	25.34	264.6	1.36	.26	1482.
50	7.35	32.61	50	25.51	248.4	1.62	.38	1478.
60	6.78	32.61	60	25.59	241.2	1.86	.52	1476.
70	6.60	32.61	70	25.61	239.0	2.10	.67	1475.
80	6.26	32.61	80	25.66	235.0	2.34	.86	1474.
90	5.73	32.65	89	25.76	225.4	2.57	1.05	1472.
100	5.49	32.73	99	25.85	217.2	2.79	1.27	1472.
110	5.27	32.90	109	26.01	202.1	3.00	1.49	1471.
120	5.01	33.05	119	26.15	188.6	3.19	1.72	1470.
130	4.94	33.15	129	26.24	180.0	3.38	1.96	1470.
140	5.08	33.33	139	26.37	168.1	3.55	2.19	1471.
150	5.21	33.55	149	26.52	153.4	3.71	2.43	1472.
160	5.20	33.67	159	26.62	144.3	3.86	2.67	1473.
170	5.19	33.76	169	26.69	137.5	4.00	2.91	1473.
180	5.15	33.80	179	26.73	134.4	4.14	3.15	1473.
190	5.10	33.81	189	26.74	133.0	4.27	3.40	1473.
200	5.05	33.82	199	26.75	132.1	4.40	3.66	1473.
210	4.87	33.82	209	26.78	129.9	4.54	3.94	1472.
220	4.75	33.83	218	26.80	127.8	4.66	4.22	1472.
230	4.63	33.83	228	26.81	126.7	4.79	4.51	1472.
240	4.56	33.83	238	26.82	126.1	4.92	4.82	1472.
250	4.54	33.84	248	26.83	125.4	5.04	5.13	1472.
260	4.49	33.84	258	26.84	124.7	5.17	5.45	1472.
270	4.46	33.85	268	26.85	123.7	5.29	5.79	1472.
280	4.43	33.87	278	26.87	121.9	5.42	6.13	1472.
290	4.36	33.87	288	26.88	121.1	5.54	6.49	1472.
300	4.35	33.88	298	26.89	120.1	5.66	6.85	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 27

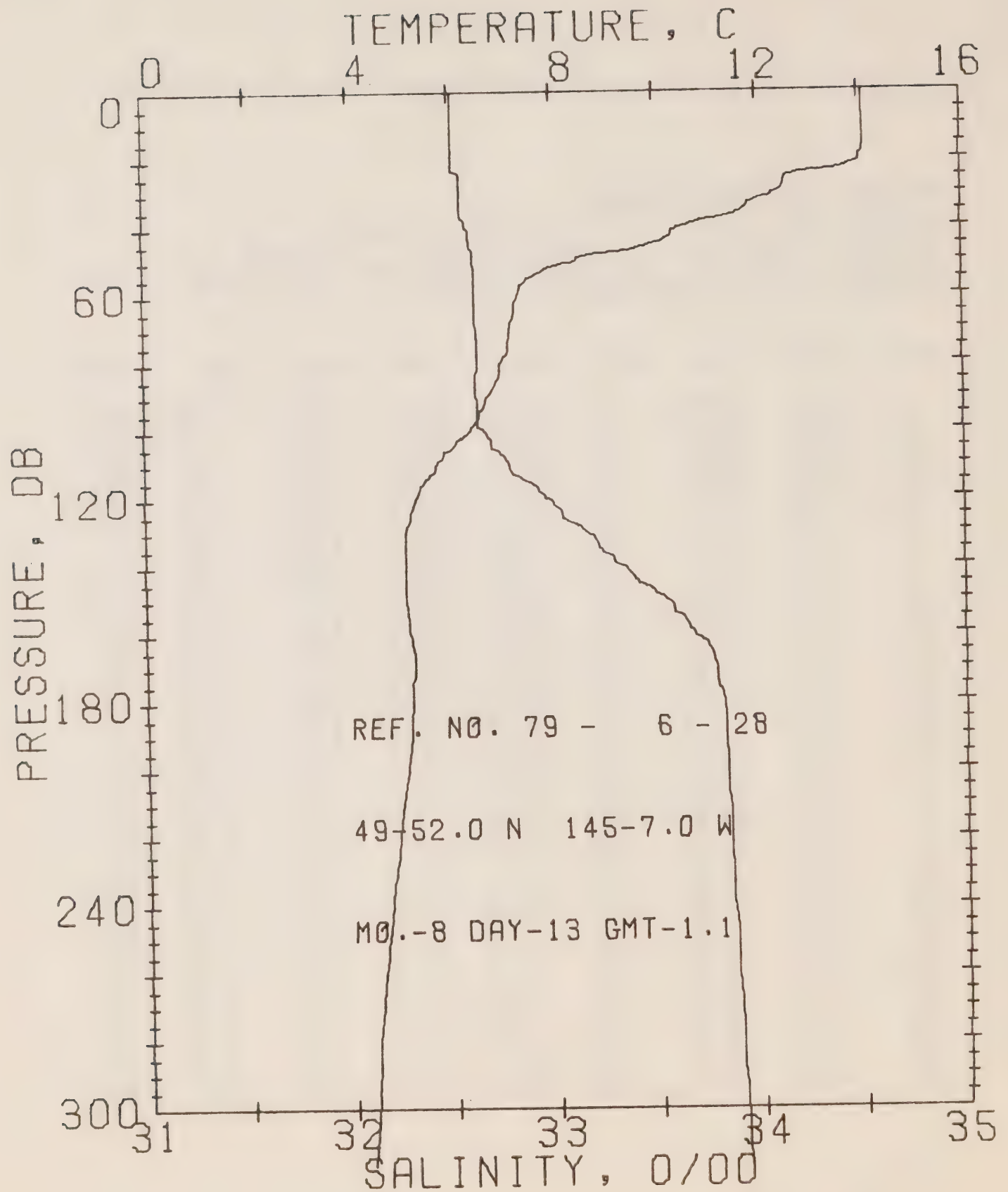
DATE 12/ 8/79

POSITION 49-43.0N, 145-15.0W GMT 23.7 STATION W4

RESULTS OF SLP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.16	32.54	0	24.28	365.4	.00	.00	1502.
10	14.18	32.54	10	24.27	366.0	.37	.02	1502.
20	13.67	32.54	20	24.38	356.3	.73	.07	1500.
30	12.04	32.54	30	24.70	326.3	1.07	.16	1495.
40	8.74	32.61	40	25.31	267.6	1.36	.27	1483.
50	7.64	32.62	50	25.48	251.5	1.62	.38	1479.
60	7.09	32.62	60	25.56	244.4	1.87	.52	1477.
70	6.64	32.62	70	25.62	238.8	2.11	.68	1476.
80	6.39	32.62	80	25.65	235.8	2.35	.86	1475.
90	5.97	32.62	89	25.70	230.9	2.58	1.07	1473.
100	5.56	32.67	99	25.79	222.5	2.81	1.29	1472.
110	5.31	32.82	109	25.94	208.6	3.03	1.52	1471.
120	5.17	32.95	119	26.06	197.4	3.23	1.76	1471.
130	5.06	33.13	129	26.21	182.8	3.42	2.00	1471.
140	5.03	33.27	139	26.32	172.3	3.60	2.25	1471.
150	5.08	33.43	149	26.45	160.8	3.77	2.49	1472.
160	5.15	33.59	159	26.56	149.7	3.92	2.74	1472.
170	5.16	33.68	169	26.64	142.8	4.07	2.99	1473.
180	5.13	33.76	179	26.70	137.0	4.21	3.24	1473.
190	5.08	33.78	189	26.72	135.0	4.35	3.49	1473.
200	5.00	33.80	199	26.75	132.7	4.48	3.76	1473.
210	4.92	33.81	209	26.76	131.2	4.61	4.03	1473.
220	4.89	33.84	218	26.79	128.7	4.74	4.32	1473.
230	4.84	33.84	228	26.80	128.1	4.87	4.61	1473.
240	4.76	33.85	238	26.81	126.7	5.00	4.92	1472.
250	4.70	33.85	248	26.82	126.1	5.13	5.23	1472.
260	4.60	33.87	258	26.84	124.0	5.25	5.56	1472.
270	4.55	33.87	268	26.85	123.2	5.37	5.89	1472.
280	4.50	33.88	278	26.87	122.0	5.50	6.24	1472.
290	4.45	33.88	288	26.87	121.6	5.62	6.59	1472.
300	4.39	33.89	298	26.89	120.2	5.74	6.95	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 28

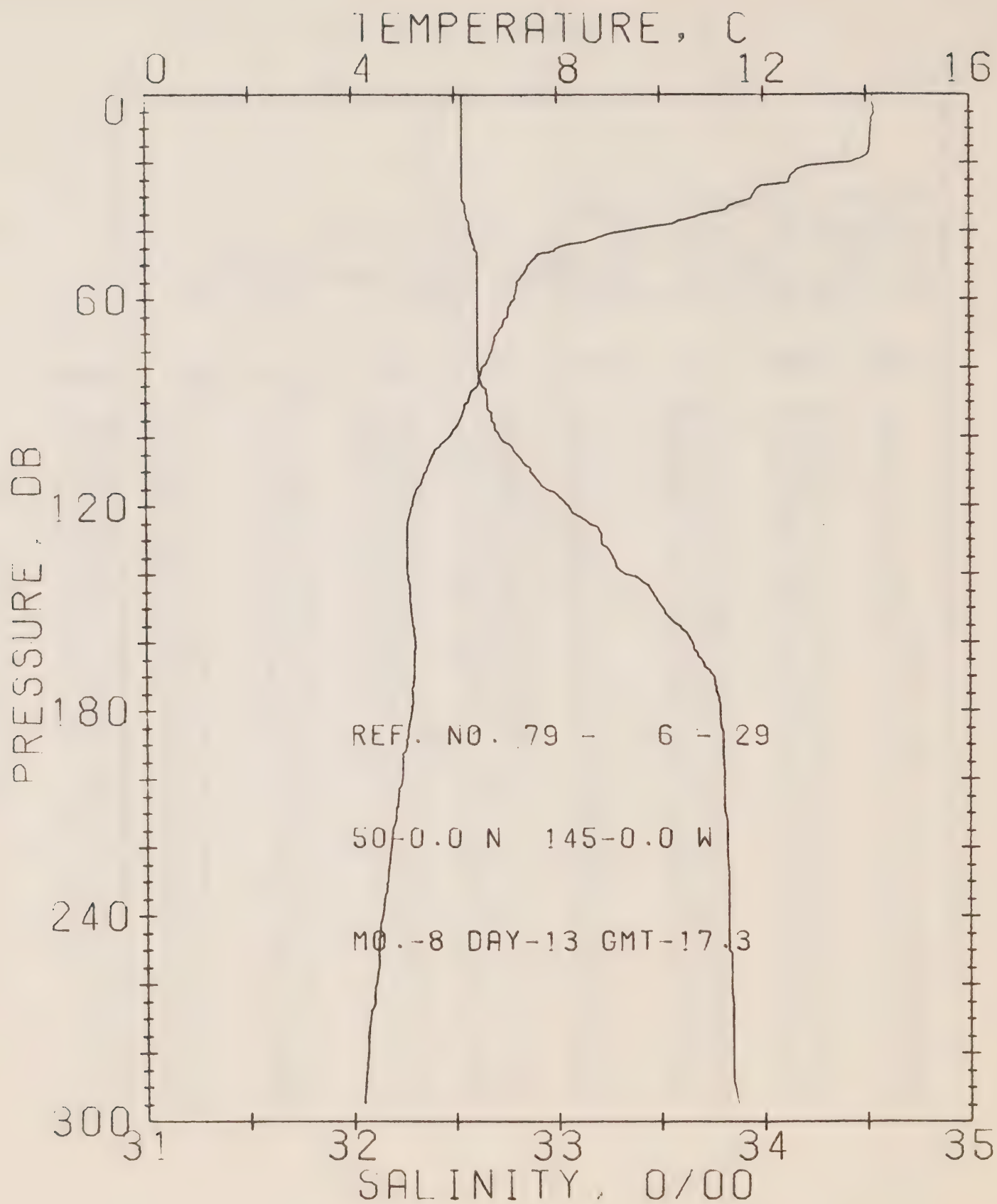
DATE 13/ 8/79

POSITION 49-52.0N, 145- 7.0W GMT 1.1 STATION W3

RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.11	32.52	0	24.27	365.9	.00	.00	1501.
10	14.12	32.52	10	24.27	366.4	.37	.02	1502.
20	14.03	32.52	20	24.29	364.8	.73	.07	1502.
30	12.33	32.55	30	24.65	330.7	1.08	.16	1496.
40	10.44	32.58	40	25.01	296.2	1.39	.27	1490.
50	8.42	32.61	50	25.36	263.1	1.68	.40	1482.
60	7.31	32.62	60	25.53	247.3	1.93	.54	1478.
70	7.15	32.62	70	25.55	245.0	2.17	.71	1478.
80	6.97	32.63	80	25.58	242.4	2.42	.89	1477.
90	6.69	32.62	89	25.61	239.7	2.66	1.10	1476.
100	6.36	32.66	99	25.68	232.7	2.90	1.33	1475.
110	5.69	32.78	109	25.86	215.9	3.12	1.57	1473.
120	5.28	32.96	119	26.05	197.8	3.33	1.82	1471.
130	5.08	33.15	129	26.22	181.5	3.52	2.06	1471.
140	5.06	33.32	139	26.36	168.7	3.69	2.30	1471.
150	5.10	33.54	149	26.53	152.8	3.85	2.54	1472.
160	5.18	33.67	159	26.62	144.0	4.00	2.77	1473.
170	5.25	33.78	169	26.70	136.7	4.14	3.01	1473.
180	5.18	33.81	179	26.74	133.6	4.28	3.25	1473.
190	5.14	33.82	189	26.75	132.7	4.41	3.50	1473.
200	5.06	33.83	199	26.76	131.2	4.54	3.76	1473.
210	4.96	33.84	209	26.78	129.7	4.67	4.03	1473.
220	4.88	33.84	218	26.79	128.6	4.80	4.32	1473.
230	4.80	33.85	228	26.81	127.0	4.93	4.61	1472.
240	4.72	33.85	238	26.82	126.0	5.06	4.91	1472.
250	4.64	33.87	248	26.84	124.0	5.18	5.22	1472.
260	4.57	33.87	258	26.85	123.3	5.30	5.55	1472.
270	4.50	33.88	268	26.87	121.9	5.43	5.88	1472.
280	4.44	33.89	278	26.88	120.6	5.55	6.22	1472.
290	4.41	33.89	288	26.89	120.1	5.67	6.57	1472.
300	4.38	33.90	298	26.90	119.0	5.79	6.93	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 29

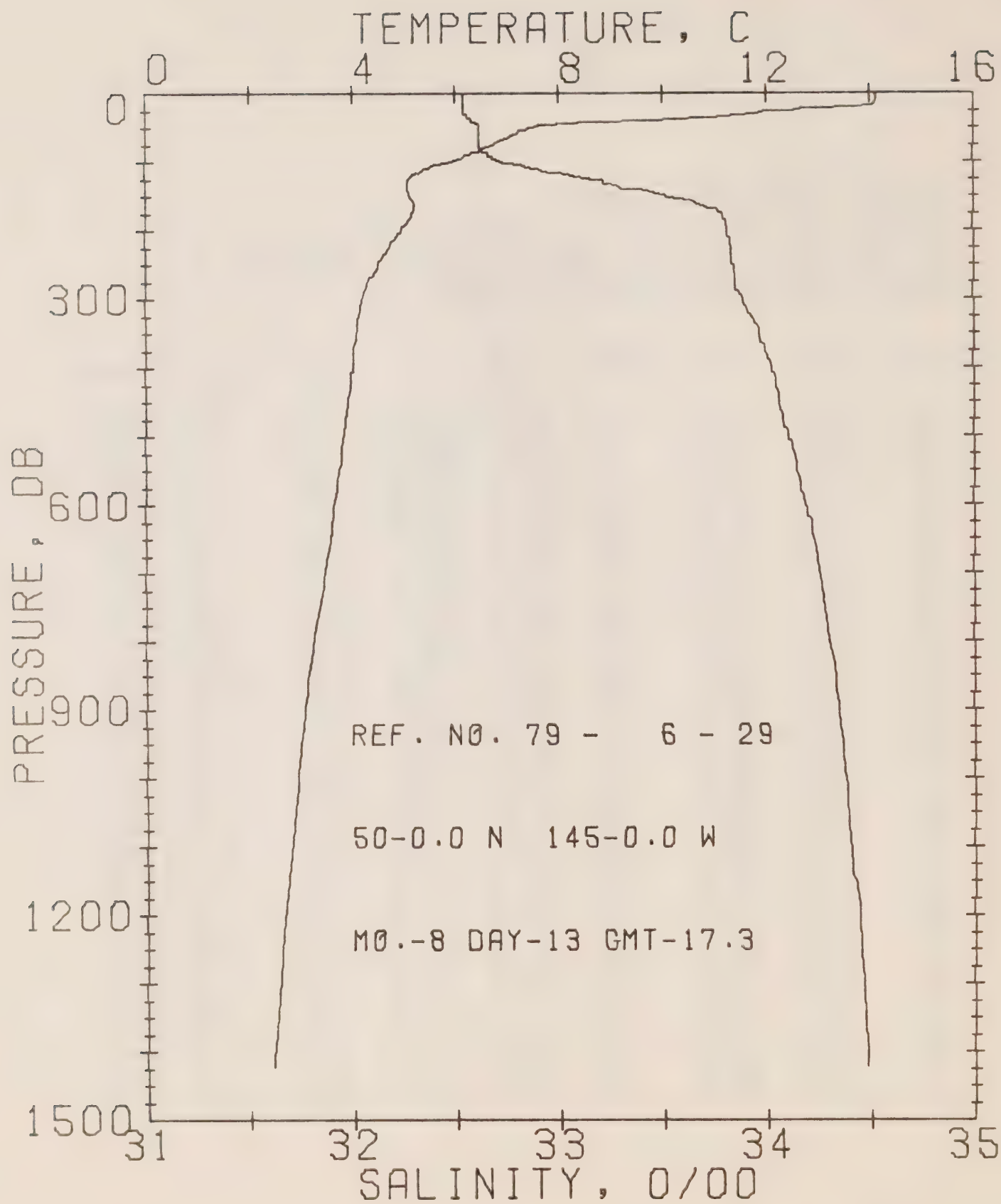
DATE 13/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 200 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.12	32.54	0	24.29	364.6	.00	.00	1502.
10	14.10	32.54	10	24.29	364.4	.36	.02	1502.
20	13.71	32.54	20	24.37	357.1	.73	.07	1501.
30	11.80	32.54	30	24.74	322.0	1.06	.16	1494.
40	9.37	32.58	40	25.19	279.3	1.37	.27	1486.
50	7.45	32.61	50	25.50	249.7	1.63	.39	1478.
60	7.16	32.61	60	25.54	246.1	1.87	.52	1478.
70	6.83	32.61	70	25.58	241.9	2.12	.69	1476.
80	6.53	32.61	80	25.62	238.3	2.36	.87	1475.
90	6.26	32.66	89	25.70	231.4	2.59	1.07	1474.
100	5.90	32.72	99	25.79	222.7	2.82	1.29	1473.
110	5.44	32.87	109	25.96	206.3	3.03	1.52	1472.
120	5.16	33.05	119	26.14	189.8	3.23	1.75	1471.
130	5.07	33.21	129	26.27	176.9	3.41	1.99	1471.
140	5.08	33.33	139	26.37	168.1	3.59	2.22	1471.
150	5.14	33.51	149	26.50	155.4	3.75	2.46	1472.
160	5.22	33.65	159	26.60	146.0	3.90	2.70	1473.
170	5.20	33.76	169	26.69	137.7	4.04	2.94	1473.
180	5.15	33.79	179	26.72	135.0	4.18	3.18	1473.
190	5.04	33.80	189	26.74	133.1	4.31	3.43	1473.
200	4.95	33.81	199	26.76	131.4	4.44	3.69	1472.
210	4.83	33.81	209	26.78	129.9	4.57	3.97	1472.
220	4.73	33.82	218	26.79	128.5	4.70	4.25	1472.
230	4.66	33.83	228	26.81	127.0	4.83	4.54	1472.
240	4.56	33.83	238	26.82	126.0	4.96	4.85	1472.
250	4.49	33.83	248	26.83	125.4	5.08	5.16	1471.
260	4.44	33.84	258	26.84	124.2	5.21	5.48	1471.
270	4.31	33.85	268	26.86	122.1	5.33	5.82	1471.
280	4.26	33.85	278	26.87	121.7	5.45	6.16	1471.
290	4.20	33.86	288	26.88	120.7	5.57	6.51	1471.
300	4.17	33.88	298	26.90	118.7	5.69	6.87	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 29

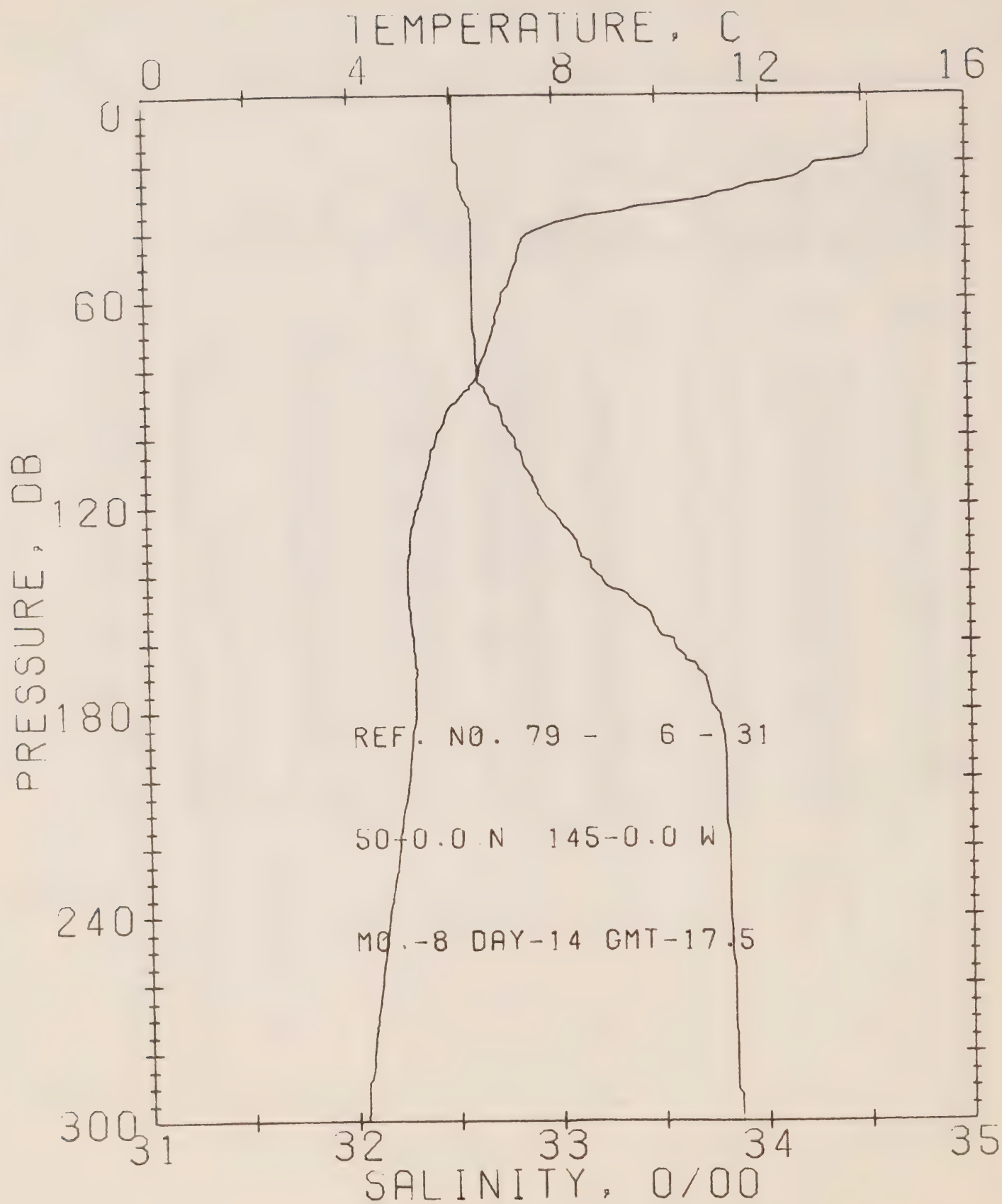
DATE 13/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 316 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.12	32.54	0	24.29	364.6	.00	.00	1502.
10	14.10	32.54	10	24.29	364.4	.36	.02	1502.
20	13.71	32.54	20	24.37	357.1	.73	.07	1501.
30	11.80	32.54	30	24.74	322.0	1.06	.16	1494.
50	7.45	32.61	50	25.50	249.7	1.63	.39	1478.
75	6.72	32.61	75	25.60	240.6	2.24	.78	1476.
100	5.90	32.72	99	25.79	222.7	2.82	1.29	1473.
125	5.08	33.15	124	26.22	181.5	3.32	1.87	1471.
150	5.14	33.51	149	26.50	155.4	3.75	2.46	1472.
175	5.15	33.78	174	26.71	136.1	4.11	3.06	1473.
200	4.95	33.81	199	26.76	131.4	4.44	3.69	1472.
225	4.70	33.83	223	26.80	127.7	4.77	4.40	1472.
250	4.49	33.83	248	26.83	125.4	5.08	5.16	1471.
300	4.17	33.88	298	26.90	118.7	5.69	6.87	1471.
400	4.00	34.02	397	27.03	107.2	6.82	10.87	1472.
500	3.80	34.10	496	27.11	100.0	7.85	15.63	1473.
600	3.62	34.18	595	27.19	93.0	8.82	21.03	1474.
800	3.21	34.30	793	27.33	81.3	10.55	33.36	1476.
1000	2.91	34.37	990	27.42	73.6	12.09	47.45	1478.
1200	2.65	34.44	1188	27.49	66.9	13.50	63.25	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 31

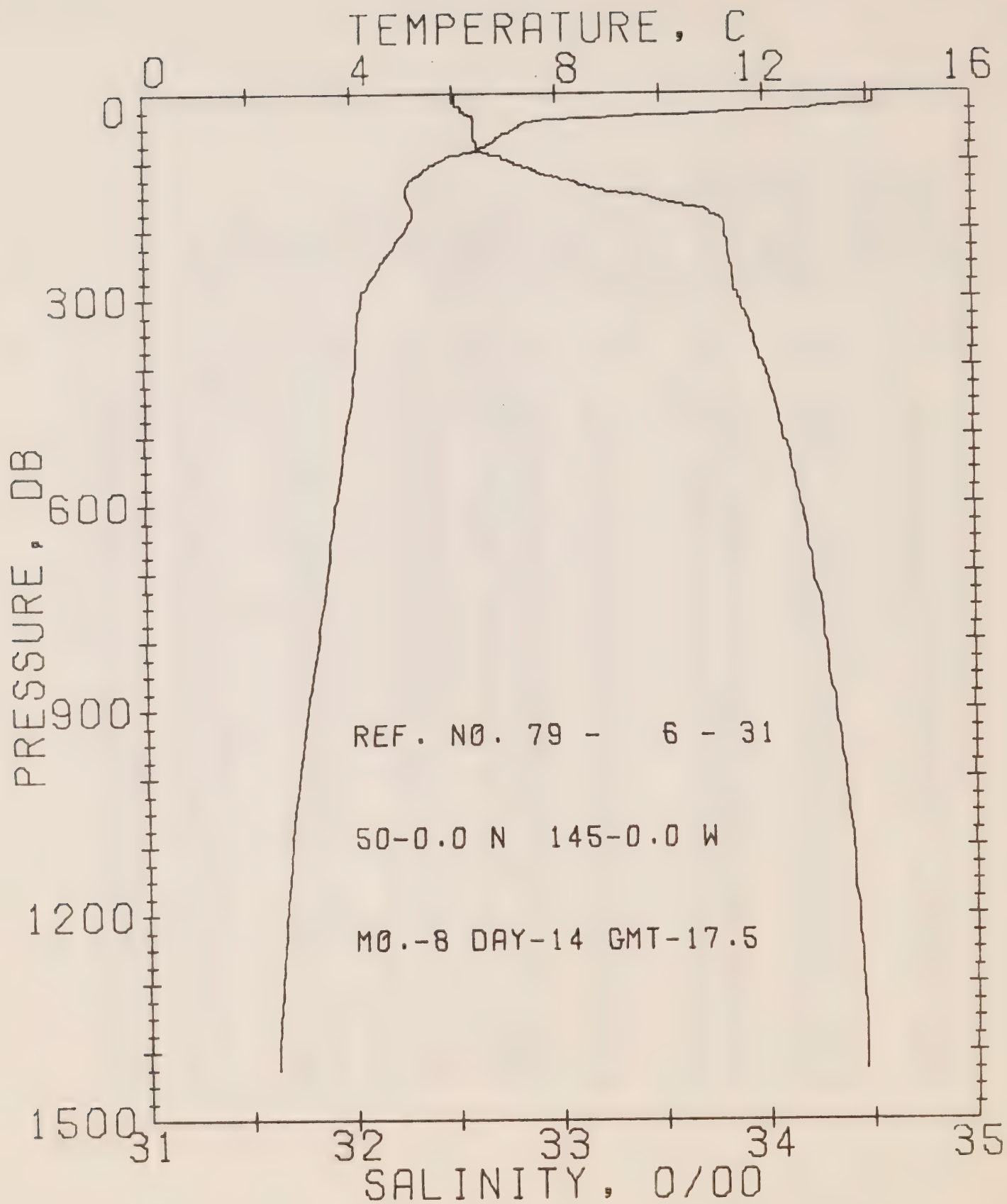
DATE 14/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 184 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.12	32.51	0	24.26	366.8	.00	.00	1501.
10	14.12	32.51	10	24.26	367.1	.37	.02	1502.
20	13.07	32.54	20	24.50	344.9	.73	.07	1498.
30	11.00	32.56	30	24.90	306.7	1.06	.16	1491.
40	7.57	32.60	40	25.48	251.9	1.33	.25	1479.
50	7.22	32.60	50	25.52	247.4	1.58	.37	1478.
60	6.96	32.60	60	25.56	244.2	1.83	.51	1477.
70	6.76	32.61	70	25.59	241.3	2.07	.67	1476.
80	6.52	32.62	80	25.63	237.4	2.31	.85	1475.
90	6.06	32.68	89	25.74	227.5	2.54	1.05	1474.
100	5.65	32.80	99	25.88	213.8	2.76	1.27	1472.
110	5.47	32.87	109	25.96	206.8	2.98	1.49	1472.
120	5.29	32.95	119	26.04	198.7	3.18	1.73	1471.
130	5.13	33.09	129	26.17	186.5	3.37	1.97	1471.
140	5.08	33.19	139	26.26	178.6	3.55	2.23	1471.
150	5.10	33.43	149	26.44	161.0	3.72	2.48	1472.
160	5.16	33.56	159	26.54	152.0	3.88	2.73	1472.
170	5.22	33.71	169	26.65	141.6	4.03	2.97	1473.
180	5.21	33.77	179	26.70	137.1	4.17	3.22	1473.
190	5.11	33.80	189	26.74	133.6	4.30	3.48	1473.
200	5.05	33.81	199	26.75	132.5	4.44	3.74	1473.
210	4.93	33.81	209	26.76	131.3	4.57	4.02	1473.
220	4.85	33.82	218	26.78	129.8	4.70	4.30	1472.
230	4.75	33.82	228	26.79	128.7	4.83	4.60	1472.
240	4.64	33.82	238	26.80	127.5	4.96	4.91	1472.
250	4.55	33.83	248	26.82	126.0	5.08	5.22	1472.
260	4.48	33.84	258	26.84	124.6	5.21	5.55	1472.
270	4.38	33.84	268	26.85	123.6	5.33	5.89	1471.
280	4.31	33.85	278	26.86	122.2	5.46	6.23	1471.
290	4.19	33.85	288	26.88	121.1	5.58	6.58	1471.
300	4.16	33.87	298	26.89	119.3	5.70	6.94	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 31

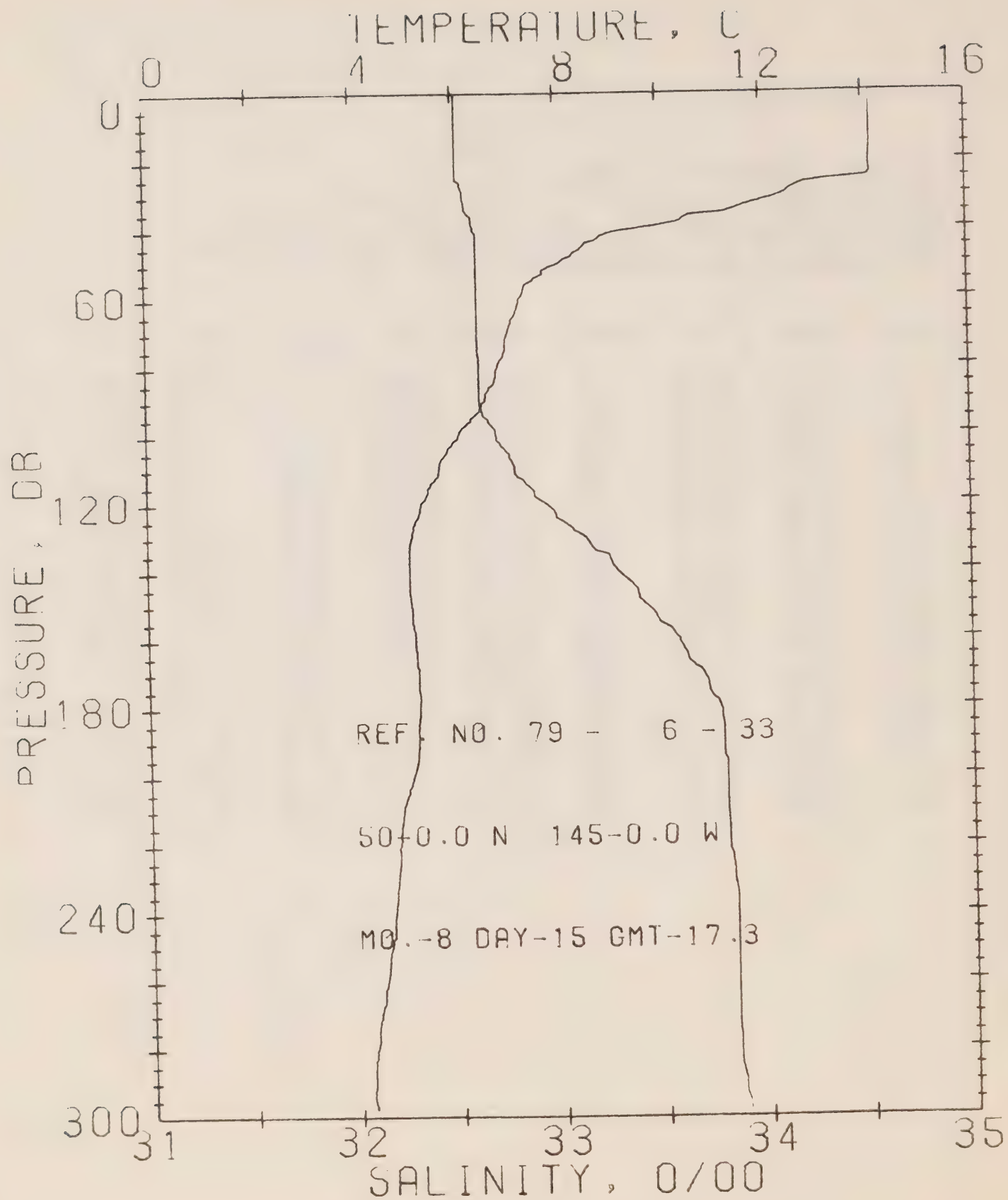
DATE 14/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 296 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.12	32.51	0	24.26	366.8	.00	.00	1501.
10	14.12	32.51	10	24.26	367.1	.37	.02	1502.
20	13.07	32.54	20	24.50	344.9	.73	.07	1498.
30	11.00	32.56	30	24.90	306.7	1.06	.16	1491.
50	7.22	32.60	50	25.52	247.4	1.58	.37	1478.
75	6.65	32.61	75	25.61	239.7	2.19	.76	1476.
100	5.65	32.80	99	25.88	213.8	2.76	1.27	1472.
125	5.20	33.02	124	26.11	192.5	3.28	1.85	1471.
150	5.10	33.43	149	26.44	161.0	3.72	2.48	1472.
175	5.21	33.73	174	26.67	140.1	4.10	3.10	1473.
200	5.05	33.81	199	26.75	132.5	4.44	3.74	1473.
225	4.81	33.82	223	26.78	129.4	4.76	4.45	1472.
250	4.55	33.83	248	26.82	126.0	5.08	5.22	1472.
300	4.16	33.87	298	26.89	119.3	5.70	6.94	1471.
400	4.05	33.99	397	27.00	109.9	6.84	11.03	1472.
500	3.85	34.07	496	27.08	102.7	7.90	15.88	1473.
600	3.64	34.16	595	27.18	94.7	8.89	21.39	1474.
800	3.29	34.27	793	27.30	83.8	10.67	34.04	1476.
1000	2.90	34.37	990	27.41	73.7	12.24	48.42	1478.
1200	2.63	34.43	1188	27.49	67.5	13.65	64.22	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 33

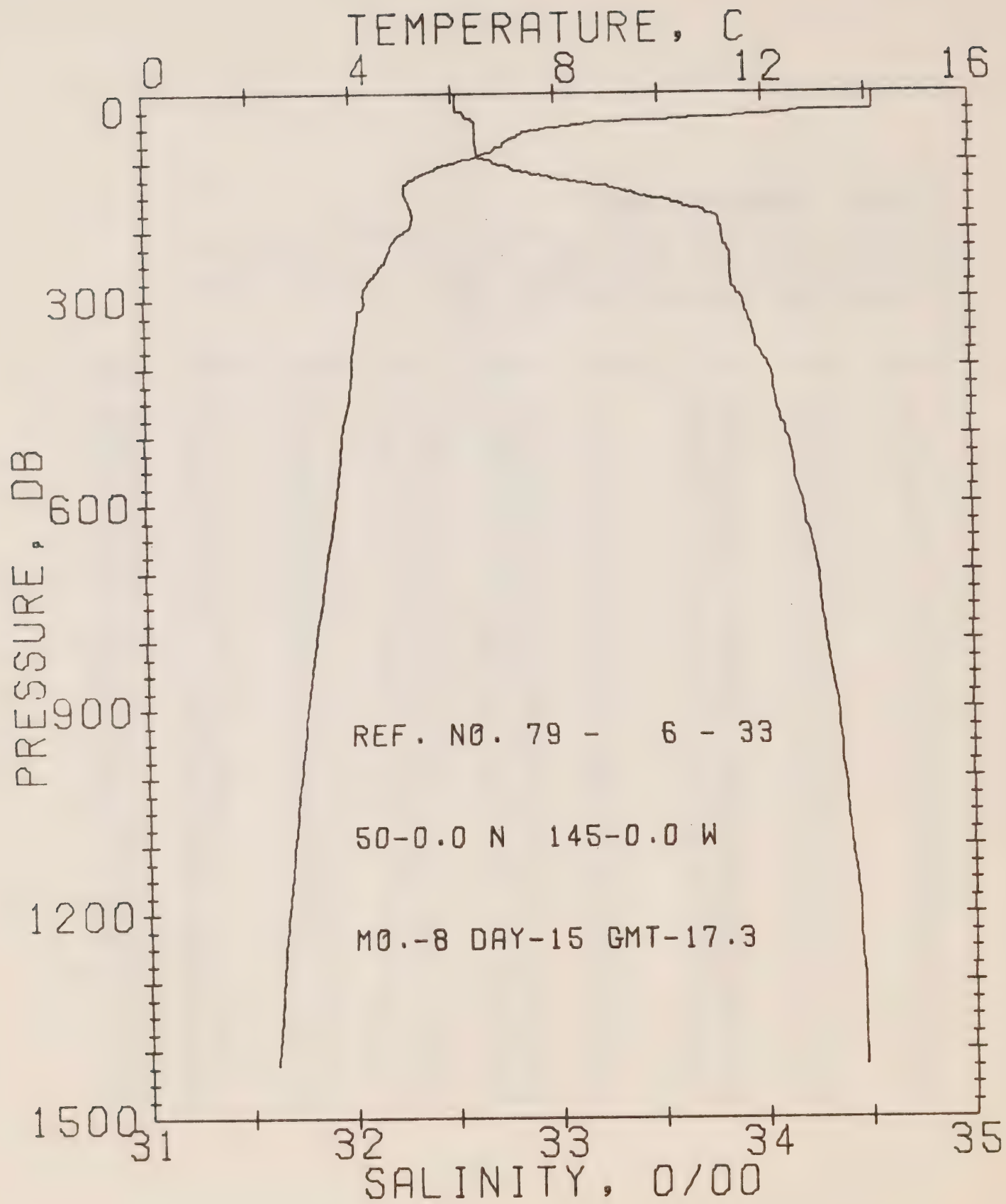
DATE 15/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 183 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.15	32.52	0	24.26	366.7	.00	.00	1502.
10	14.16	32.52	10	24.26	367.1	.37	.02	1502.
20	14.14	32.52	20	24.27	367.0	.73	.07	1502.
30	12.49	32.55	30	24.62	333.6	1.09	.16	1497.
40	9.52	32.60	40	25.18	280.1	1.40	.27	1486.
50	8.06	32.61	50	25.41	258.1	1.66	.40	1481.
60	7.29	32.61	60	25.52	247.8	1.91	.54	1478.
70	7.03	32.61	70	25.56	244.5	2.16	.70	1477.
80	6.84	32.62	80	25.59	241.4	2.40	.89	1477.
90	6.58	32.62	89	25.63	238.3	2.64	1.09	1476.
100	6.06	32.70	99	25.75	226.1	2.88	1.32	1474.
110	5.66	32.79	109	25.87	214.8	3.10	1.55	1473.
120	5.32	32.94	119	26.03	199.8	3.30	1.80	1472.
130	5.11	33.13	129	26.21	183.3	3.50	2.04	1471.
140	5.06	33.29	139	26.34	170.9	3.67	2.29	1471.
150	5.10	33.43	149	26.44	161.0	3.84	2.53	1472.
160	5.18	33.58	159	26.55	150.8	4.00	2.78	1472.
170	5.22	33.69	169	26.64	143.1	4.14	3.03	1473.
180	5.23	33.77	179	26.70	137.1	4.28	3.28	1473.
190	5.19	33.79	189	26.72	135.5	4.42	3.53	1473.
200	5.09	33.80	199	26.74	133.7	4.55	3.80	1473.
210	4.88	33.80	209	26.76	131.4	4.69	4.08	1472.
220	4.80	33.81	218	26.78	129.9	4.82	4.36	1472.
230	4.75	33.83	228	26.80	128.0	4.95	4.66	1472.
240	4.69	33.84	238	26.81	126.6	5.07	4.96	1472.
250	4.60	33.84	248	26.82	125.8	5.20	5.28	1472.
260	4.52	33.84	258	26.83	125.0	5.33	5.61	1472.
270	4.38	33.84	268	26.85	123.6	5.45	5.94	1471.
280	4.29	33.85	278	26.87	122.0	5.57	6.28	1471.
290	4.24	33.87	288	26.89	120.0	5.69	6.64	1471.
300	4.28	33.89	298	26.90	118.8	5.81	7.00	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 33

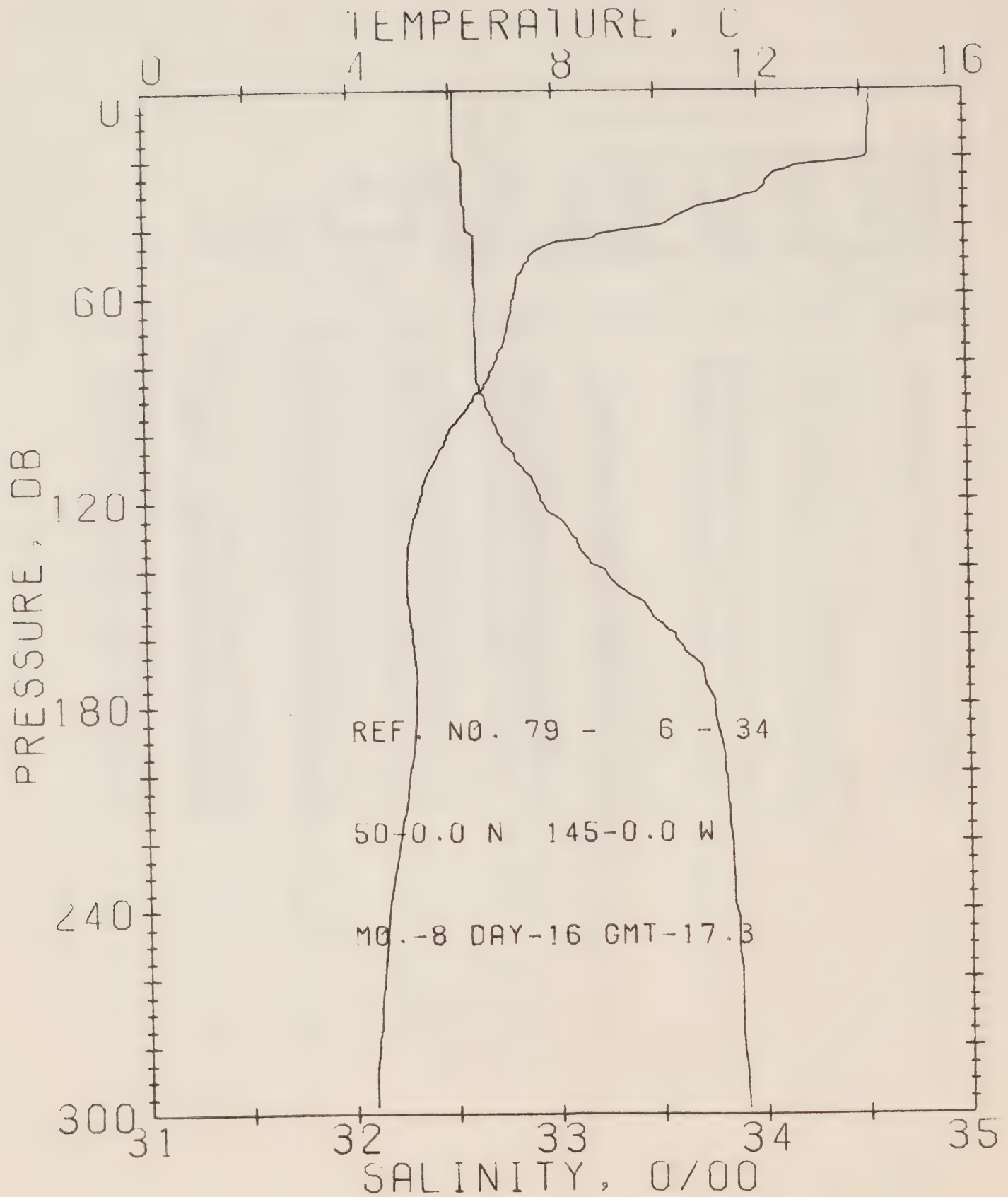
DATE 15/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 285 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.15	32.52	0	24.26	366.7	.00	.00	1502.
10	14.16	32.52	10	24.26	367.1	.37	.02	1502.
20	14.14	32.52	20	24.27	367.0	.73	.07	1502.
30	12.49	32.55	30	24.62	333.6	1.09	.16	1497.
50	8.06	32.61	50	25.41	258.1	1.66	.40	1481.
75	6.98	32.61	75	25.56	243.9	2.28	.79	1477.
100	6.06	32.70	99	25.75	226.1	2.88	1.32	1474.
125	5.20	33.02	124	26.11	192.5	3.40	1.92	1471.
150	5.10	33.43	149	26.44	161.0	3.84	2.53	1472.
175	5.23	33.72	174	26.66	141.0	4.21	3.15	1473.
200	5.09	33.80	199	26.74	133.7	4.55	3.80	1473.
225	4.78	33.82	223	26.79	128.8	4.88	4.51	1472.
250	4.60	33.84	248	26.82	125.8	5.20	5.28	1472.
300	4.28	33.89	298	26.90	118.8	5.81	7.00	1471.
400	4.02	34.02	397	27.03	107.7	6.94	11.02	1472.
500	3.79	34.10	496	27.12	99.7	7.98	15.78	1473.
600	3.65	34.18	595	27.19	93.2	8.95	21.20	1474.
800	3.24	34.29	793	27.32	82.0	10.69	33.61	1476.
1000	2.93	34.37	990	27.41	73.7	12.25	47.80	1478.
1200	2.66	34.44	1188	27.49	67.1	13.65	63.55	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 34

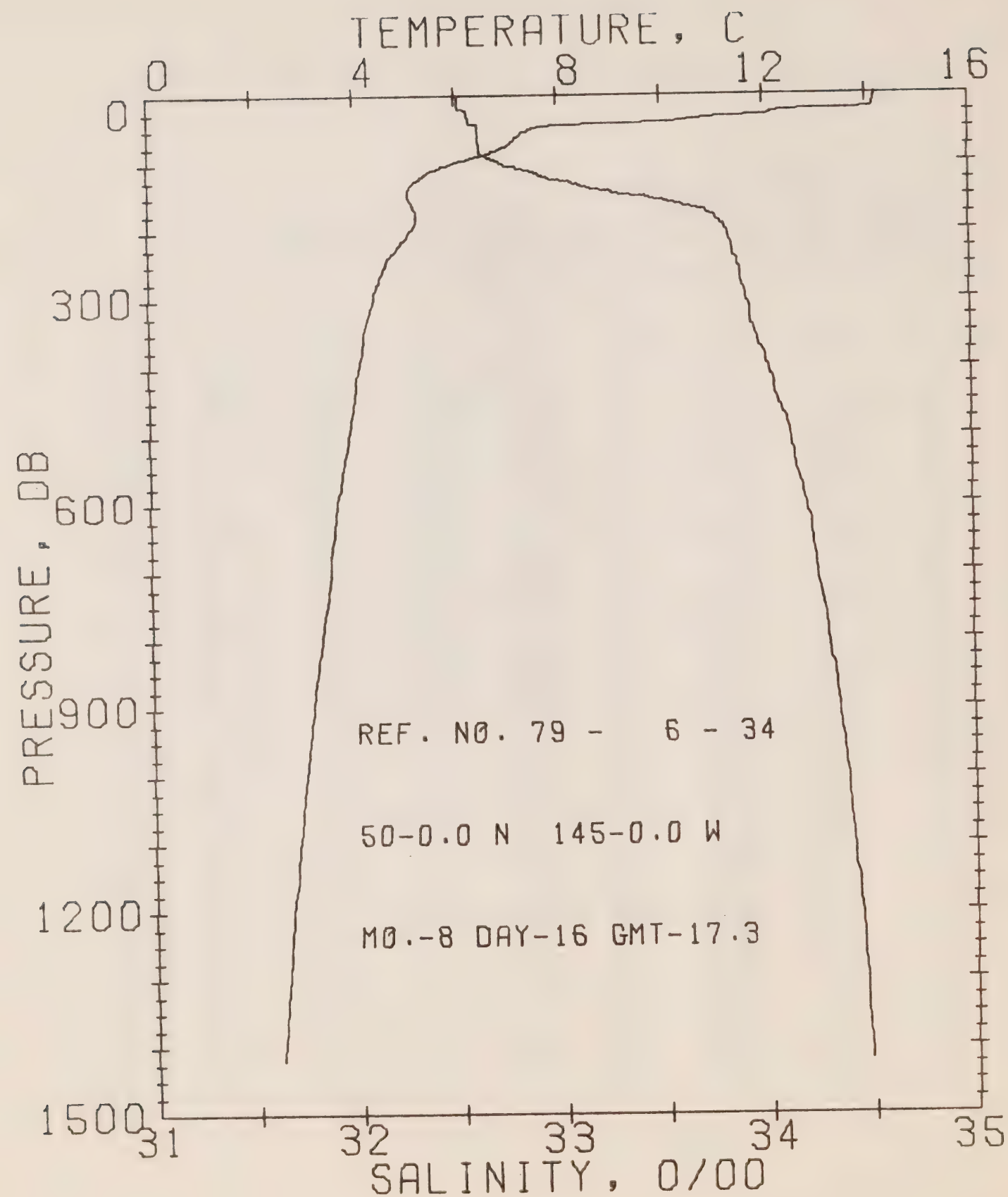
DATE 16/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 177 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.22	32.52	0	24.25	368.1	.00	.00	1502.
10	14.16	32.52	10	24.26	367.1	.37	.02	1502.
20	14.10	32.52	20	24.28	366.2	.73	.07	1502.
30	11.96	32.56	30	24.73	323.4	1.07	.16	1495.
40	9.88	32.57	40	25.10	287.9	1.37	.27	1487.
50	7.51	32.61	50	25.49	250.5	1.63	.39	1479.
60	7.23	32.62	60	25.54	246.2	1.88	.53	1478.
70	7.09	32.61	70	25.55	245.2	2.13	.69	1477.
80	6.83	32.62	80	25.59	241.3	2.37	.87	1477.
90	6.42	32.65	89	25.67	233.6	2.61	1.08	1475.
100	5.93	32.72	99	25.79	223.1	2.84	1.30	1473.
110	5.56	32.84	109	25.92	209.9	3.05	1.53	1472.
120	5.33	32.93	119	26.02	200.7	3.26	1.77	1472.
130	5.14	33.07	129	26.15	188.2	3.45	2.02	1471.
140	5.08	33.23	139	26.29	175.6	3.63	2.27	1471.
150	5.10	33.43	149	26.44	161.0	3.80	2.52	1472.
160	5.16	33.57	159	26.55	151.3	3.96	2.77	1472.
170	5.24	33.71	169	26.65	142.1	4.11	3.02	1473.
180	5.23	33.76	179	26.69	137.9	4.25	3.27	1473.
190	5.19	33.79	189	26.72	135.2	4.38	3.52	1473.
200	5.09	33.81	199	26.75	132.7	4.52	3.79	1473.
210	5.00	33.83	209	26.77	130.6	4.65	4.07	1473.
220	4.87	33.84	218	26.79	128.5	4.78	4.35	1473.
230	4.76	33.85	228	26.81	126.8	4.91	4.64	1472.
240	4.66	33.86	238	26.83	124.8	5.03	4.95	1472.
250	4.60	33.87	248	26.85	123.6	5.16	5.25	1472.
260	4.54	33.88	258	26.86	122.3	5.28	5.57	1472.
270	4.48	33.88	268	26.87	121.7	5.40	5.90	1472.
280	4.43	33.89	278	26.88	120.5	5.52	6.24	1472.
290	4.37	33.90	288	26.90	119.1	5.64	6.59	1472.
300	4.35	33.91	298	26.91	118.4	5.76	6.95	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 34

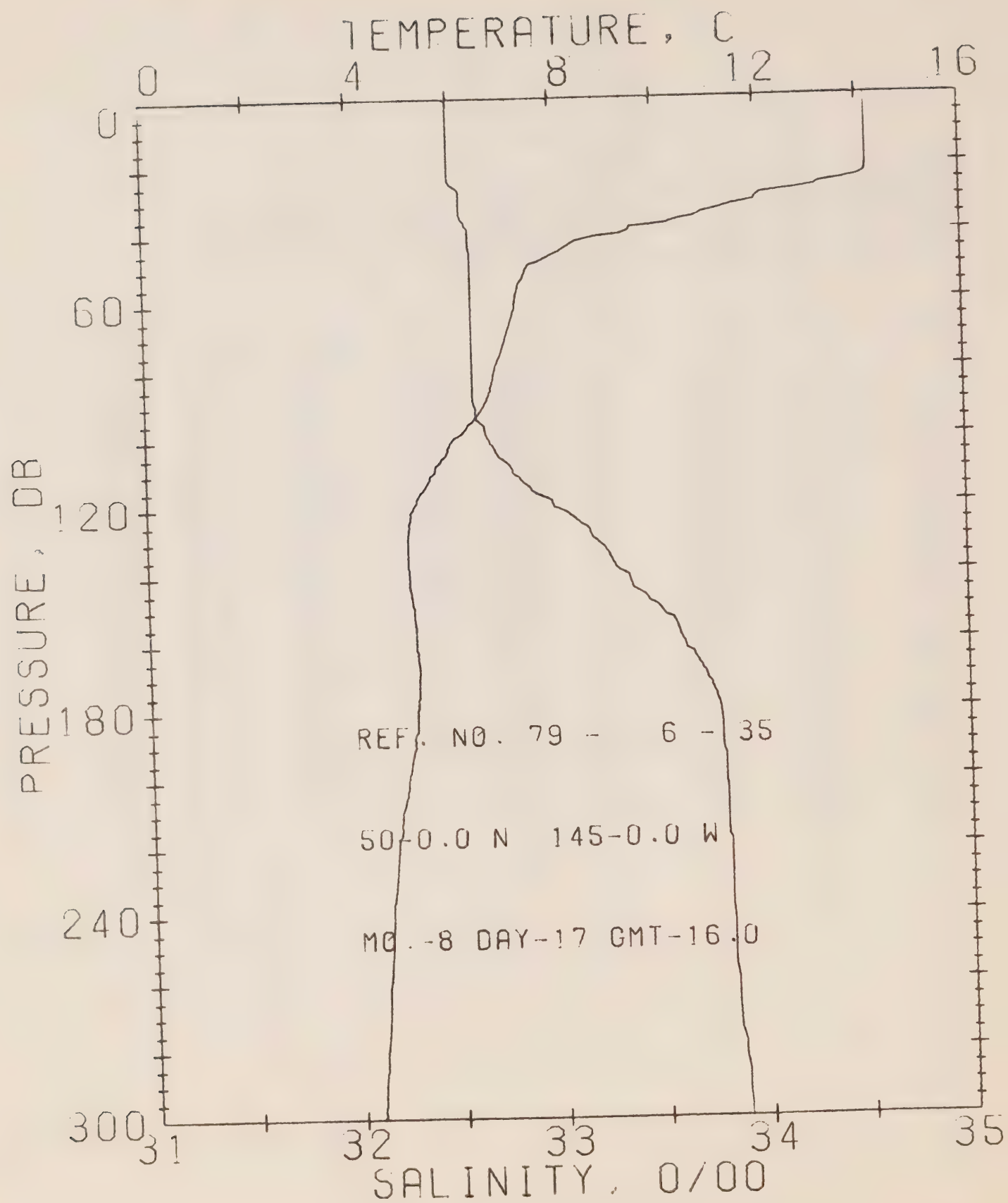
DATE 16/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 295 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.22	32.52	0	24.25	368.1	.00	.00	1502.
10	14.16	32.52	10	24.26	367.1	.37	.02	1502.
20	14.10	32.52	20	24.28	366.2	.73	.07	1502.
30	11.96	32.56	30	24.73	323.4	1.07	.16	1495.
50	7.51	32.61	50	25.49	250.5	1.63	.39	1479.
75	6.98	32.62	75	25.57	243.2	2.25	.78	1477.
100	5.93	32.72	99	25.79	223.1	2.84	1.30	1473.
125	5.21	33.02	124	26.11	192.6	3.36	1.90	1471.
150	5.10	33.43	149	26.44	161.0	3.80	2.52	1472.
175	5.23	33.73	174	26.67	140.3	4.18	3.14	1473.
200	5.09	33.81	199	26.75	132.7	4.52	3.79	1473.
225	4.82	33.84	223	26.80	128.0	4.84	4.50	1472.
250	4.60	33.87	248	26.85	123.6	5.16	5.25	1472.
300	4.35	33.91	298	26.91	118.4	5.76	6.95	1472.
400	4.06	34.01	397	27.01	108.8	6.90	11.00	1472.
500	3.85	34.11	496	27.12	99.5	7.94	15.76	1473.
600	3.60	34.19	595	27.20	92.2	8.90	21.15	1474.
800	3.27	34.29	793	27.32	82.3	10.65	33.56	1476.
1000	2.94	34.38	990	27.42	73.5	12.20	47.76	1478.
1200	2.66	34.44	1188	27.49	67.2	13.61	63.57	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 35

DATE 17/ 8/79

POSITION 50- .0N, 145- .0W

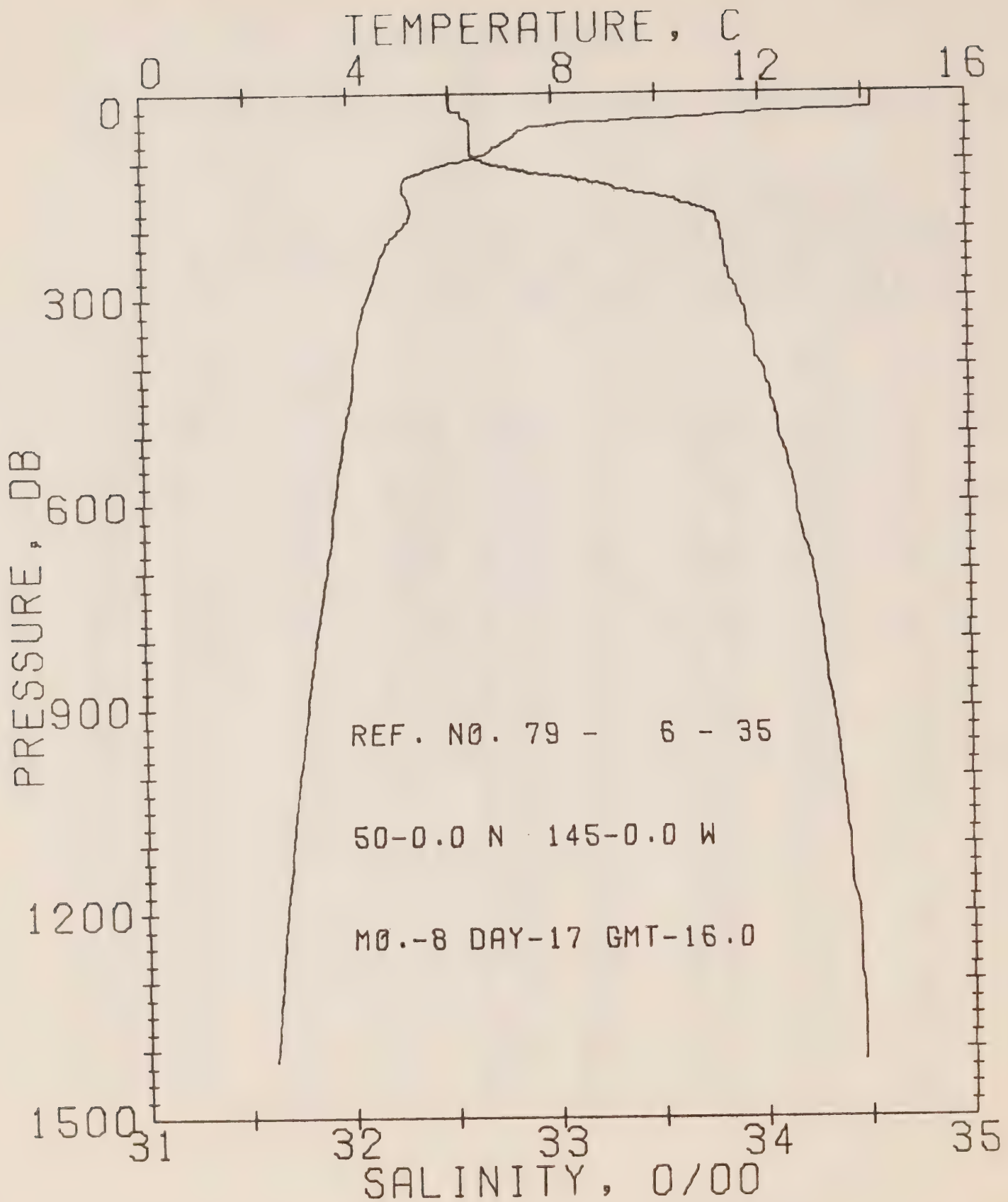
GMT 16.0

STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.19	32.50	0	24.24	368.9	.00	.00	1502.
10	14.19	32.50	10	24.24	369.2	.37	.02	1502.
20	14.20	32.50	20	24.24	369.7	.74	.08	1502.
30	12.00	32.55	30	24.71	324.8	1.09	.16	1495.
40	9.36	32.59	40	25.20	278.4	1.39	.27	1486.
50	7.50	32.60	50	25.49	251.1	1.65	.39	1479.
60	7.27	32.60	60	25.52	248.2	1.90	.53	1478.
70	7.06	32.60	70	25.55	245.6	2.15	.69	1477.
80	6.84	32.60	80	25.58	242.9	2.40	.88	1477.
90	6.63	32.61	89	25.61	240.0	2.64	1.09	1476.
100	6.01	32.67	99	25.74	227.7	2.87	1.32	1474.
110	5.62	32.79	109	25.88	214.3	3.09	1.55	1472.
120	5.21	32.99	119	26.08	194.8	3.30	1.79	1471.
130	5.08	33.19	129	26.26	178.5	3.48	2.03	1471.
140	5.09	33.35	139	26.38	166.8	3.65	2.27	1471.
150	5.16	33.50	149	26.49	156.4	3.82	2.51	1472.
160	5.21	33.61	159	26.57	148.9	3.97	2.75	1473.
170	5.24	33.71	169	26.65	141.4	4.11	2.99	1473.
180	5.18	33.78	179	26.71	136.0	4.25	3.24	1473.
190	5.12	33.79	189	26.73	134.8	4.39	3.49	1473.
200	4.98	33.80	199	26.75	132.5	4.52	3.76	1473.
210	4.84	33.81	209	26.77	130.3	4.65	4.03	1472.
220	4.74	33.82	218	26.79	128.5	4.78	4.32	1472.
230	4.68	33.82	228	26.80	127.9	4.91	4.61	1472.
240	4.62	33.83	238	26.81	127.0	5.04	4.92	1472.
250	4.57	33.83	248	26.82	126.2	5.16	5.23	1472.
260	4.52	33.84	258	26.83	125.1	5.29	5.56	1472.
270	4.49	33.84	268	26.84	124.4	5.42	5.90	1472.
280	4.45	33.87	278	26.86	122.2	5.54	6.24	1472.
290	4.39	33.88	288	26.88	120.9	5.66	6.60	1472.
300	4.35	33.89	298	26.89	119.8	5.78	6.96	1472.



OFFSHORE OCEANOGRAPHY GROUP

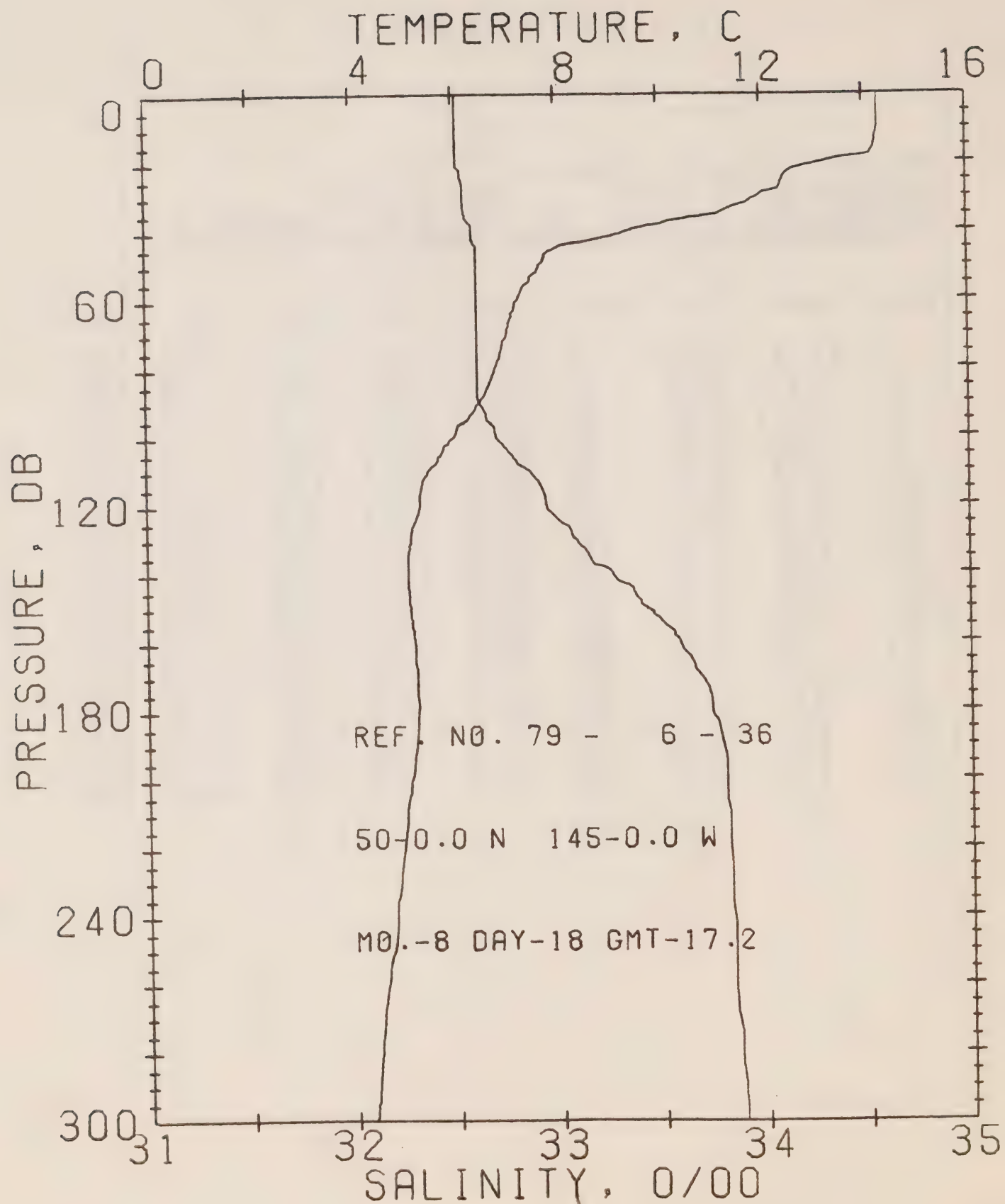
REFERENCE NO. 79- 6- 35

DATE 17/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.0 STATION P

SOUNDING WAS USED PRESSURES WERE TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.19	32.50	0	24.24	368.9	.00	.00	1502.
10	14.19	32.50	10	24.24	369.2	.37	.02	1502.
20	14.20	32.50	20	24.24	369.7	.74	.08	1502.
30	12.00	32.55	30	24.71	324.8	1.09	.16	1495.
50	7.50	32.60	50	25.49	251.1	1.65	.39	1479.
75	6.95	32.60	75	25.56	244.3	2.27	.79	1477.
100	6.01	32.67	99	25.74	227.7	2.87	1.32	1474.
125	5.10	33.12	124	26.20	183.9	3.39	1.91	1471.
150	5.16	33.50	149	26.49	156.4	3.82	2.51	1472.
175	5.22	33.76	174	26.69	137.9	4.18	3.11	1473.
200	4.98	33.80	199	26.75	132.5	4.52	3.76	1473.
225	4.70	33.82	223	26.80	128.2	4.85	4.46	1472.
250	4.57	33.83	248	26.82	126.2	5.16	5.23	1472.
300	4.35	33.89	298	26.89	119.8	5.78	6.96	1472.
400	4.07	34.00	397	27.01	109.5	6.92	11.03	1472.
500	3.87	34.07	496	27.09	102.6	7.98	15.88	1473.
600	3.67	34.16	595	27.17	94.9	8.96	21.38	1474.
800	3.29	34.28	793	27.31	83.0	10.74	34.01	1476.
1000	2.94	34.37	990	27.41	74.1	12.31	48.40	1478.
1200	2.67	34.44	1188	27.49	67.1	13.73	64.29	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 36

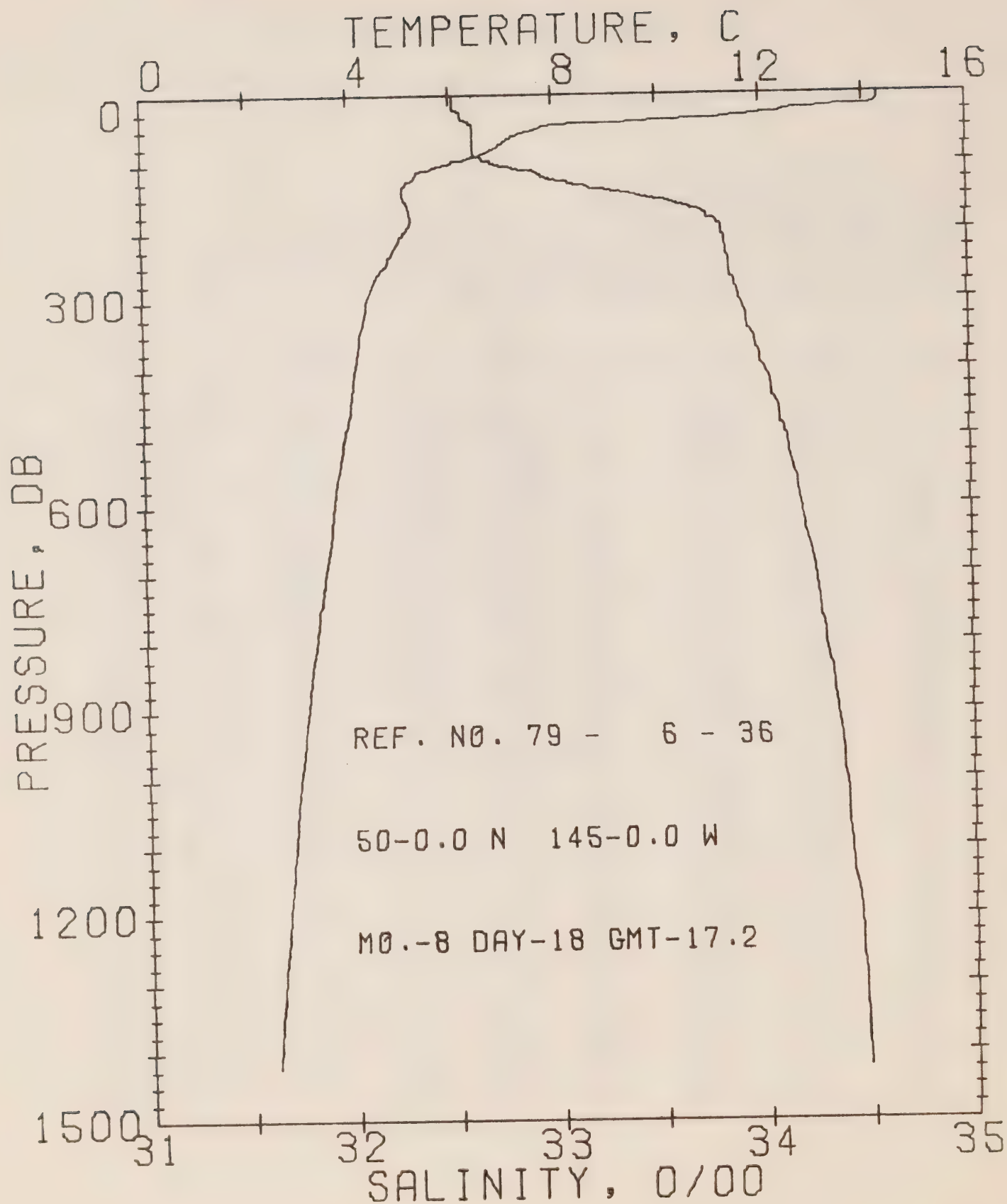
DATE 18/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 167 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.31	32.52	0	24.23	369.9	.00	.00	1502.
10	14.29	32.52	10	24.24	369.7	.37	.02	1502.
20	13.26	32.52	20	24.45	350.0	.74	.07	1499.
30	11.95	32.55	30	24.72	323.9	1.07	.16	1495.
40	9.43	32.59	40	25.19	279.4	1.37	.27	1486.
50	7.67	32.61	50	25.47	252.7	1.64	.39	1479.
60	7.24	32.61	60	25.53	247.1	1.89	.53	1478.
70	7.03	32.61	70	25.56	244.5	2.13	.69	1477.
80	6.79	32.61	80	25.59	241.6	2.37	.88	1476.
90	6.49	32.62	89	25.64	237.2	2.61	1.08	1475.
100	6.00	32.70	99	25.76	225.4	2.84	1.31	1474.
110	5.46	32.87	109	25.96	206.5	3.06	1.54	1472.
120	5.30	32.95	119	26.04	199.1	3.26	1.77	1471.
130	5.12	33.09	129	26.17	186.4	3.46	2.02	1471.
140	5.07	33.26	139	26.32	173.0	3.64	2.27	1471.
150	5.11	33.43	149	26.44	161.1	3.80	2.51	1472.
160	5.19	33.59	159	26.56	150.5	3.96	2.76	1472.
170	5.23	33.68	169	26.63	143.5	4.10	3.01	1473.
180	5.24	33.74	179	26.67	139.7	4.25	3.26	1473.
190	5.18	33.79	189	26.72	135.2	4.38	3.52	1473.
200	5.09	33.81	199	26.75	133.0	4.52	3.78	1473.
210	4.99	33.82	209	26.76	131.2	4.65	4.06	1473.
220	4.92	33.82	218	26.77	130.4	4.78	4.35	1473.
230	4.85	33.83	228	26.79	129.1	4.91	4.64	1473.
240	4.78	33.84	238	26.80	127.9	5.04	4.95	1472.
250	4.71	33.84	248	26.81	127.0	5.17	5.27	1472.
260	4.58	33.84	258	26.83	125.6	5.29	5.60	1472.
270	4.51	33.86	268	26.85	123.8	5.42	5.93	1472.
280	4.46	33.87	278	26.86	122.3	5.54	6.28	1472.
290	4.39	33.88	288	26.88	121.0	5.66	6.63	1472.
300	4.33	33.89	298	26.89	119.6	5.78	6.99	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 36

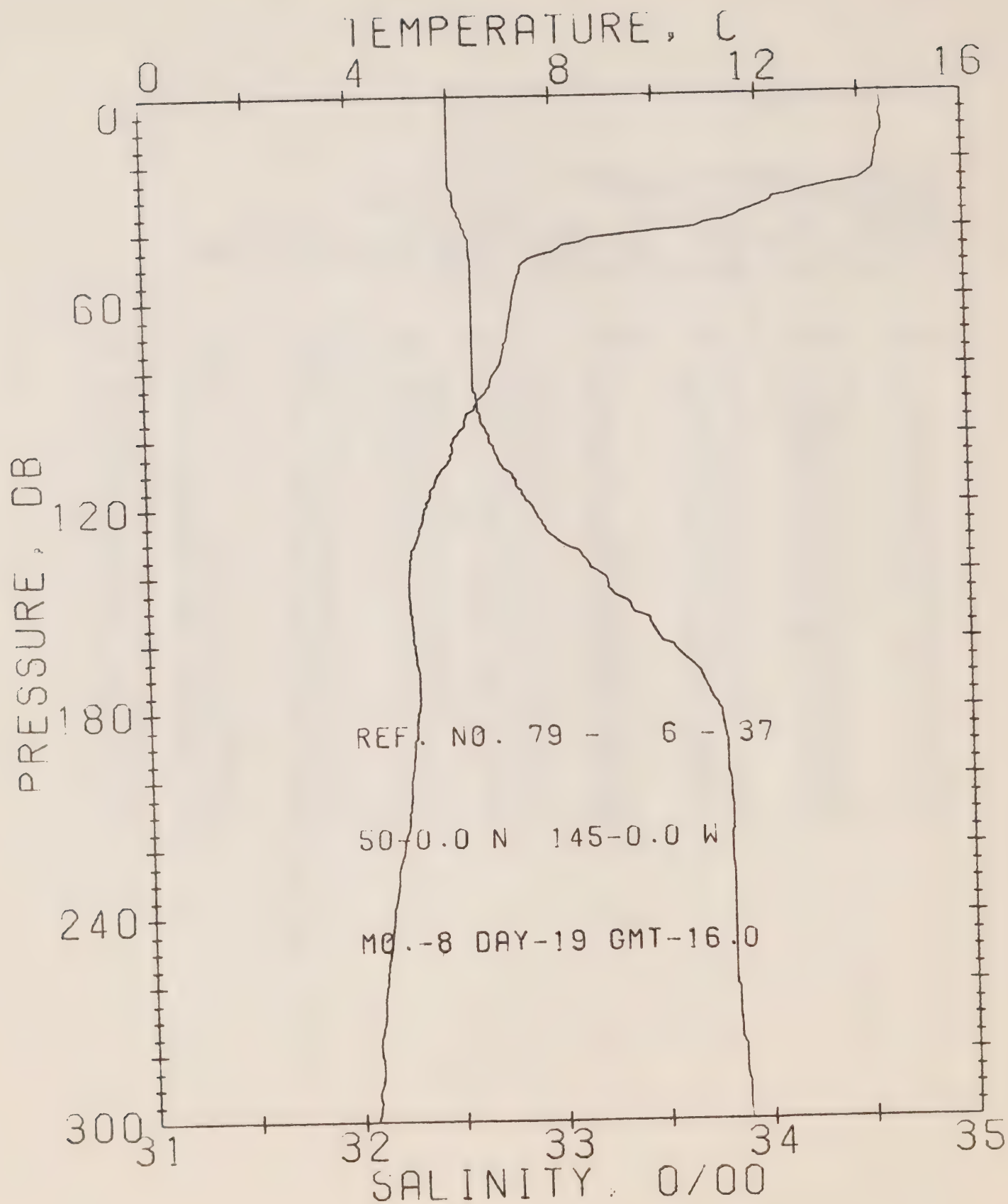
DATE 18/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 269 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.31	32.52	0	24.23	369.9	.00	.00	1502.
10	14.29	32.52	10	24.24	369.7	.37	.02	1502.
20	13.26	32.52	20	24.45	350.0	.74	.07	1499.
30	11.95	32.55	30	24.72	323.9	1.07	.16	1495.
50	7.67	32.61	50	25.47	252.7	1.64	.39	1479.
75	6.92	32.61	75	25.57	243.1	2.25	.78	1477.
100	6.00	32.70	99	25.76	225.4	2.84	1.31	1474.
125	5.21	33.02	124	26.11	192.6	3.36	1.90	1471.
150	5.11	33.43	149	26.44	161.1	3.80	2.51	1472.
175	5.23	33.73	174	26.67	140.3	4.18	3.13	1473.
200	5.09	33.81	199	26.75	133.0	4.52	3.78	1473.
225	4.88	33.83	223	26.78	129.4	4.84	4.49	1473.
250	4.71	33.84	248	26.81	127.0	5.17	5.27	1472.
300	4.33	33.89	298	26.89	119.6	5.78	6.99	1472.
400	4.09	34.00	397	27.01	109.6	6.93	11.07	1472.
500	3.88	34.11	496	27.11	100.1	7.98	15.88	1473.
600	3.65	34.17	595	27.18	94.0	8.94	21.29	1474.
800	3.26	34.29	793	27.32	82.2	10.70	33.77	1476.
1000	2.91	34.38	990	27.42	73.3	12.24	47.91	1478.
1200	2.66	34.44	1188	27.49	67.0	13.65	63.69	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 37

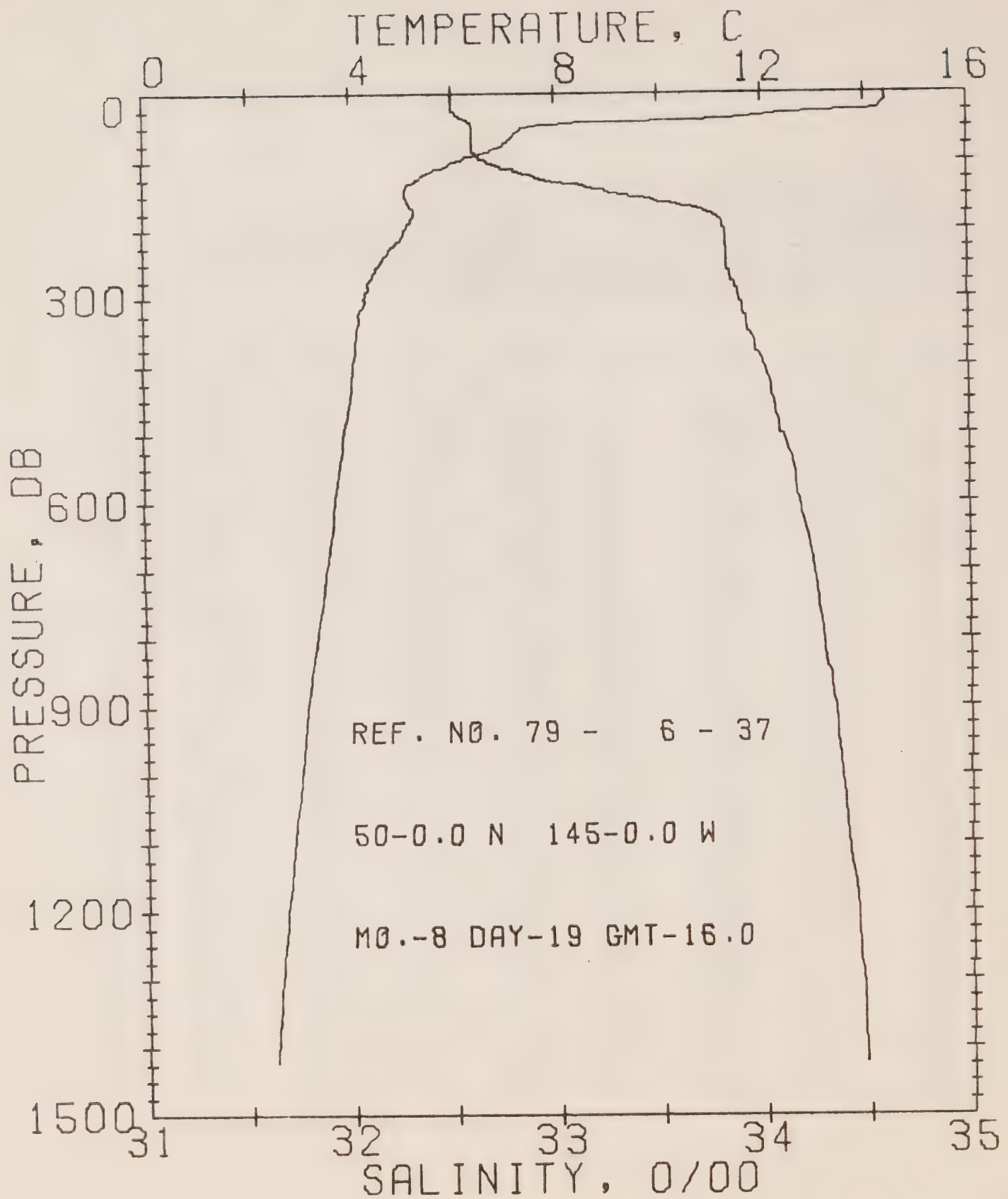
DATE 19/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.0 STATION P

RESULTS OF STP CAST 191 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.43	32.50	0	24.19	373.7	.00	.00	1502.
10	14.45	32.50	10	24.19	374.4	.37	.02	1503.
20	14.30	32.50	20	24.22	371.7	.75	.08	1502.
30	12.68	32.52	30	24.56	339.3	1.11	.17	1497.
40	10.14	32.57	40	25.06	292.1	1.43	.28	1488.
50	7.37	32.60	50	25.50	249.4	1.69	.40	1478.
60	7.20	32.60	60	25.53	247.3	1.94	.54	1478.
70	7.07	32.60	70	25.54	245.8	2.19	.70	1477.
80	6.88	32.60	80	25.57	243.4	2.43	.89	1477.
90	6.45	32.62	89	25.64	236.7	2.67	1.10	1475.
100	6.01	32.67	99	25.74	227.7	2.90	1.33	1474.
110	5.70	32.78	109	25.86	216.0	3.13	1.56	1473.
120	5.43	32.88	119	25.97	205.5	3.34	1.81	1472.
130	5.23	33.00	129	26.09	194.4	3.54	2.07	1471.
140	5.08	33.20	139	26.27	177.5	3.72	2.32	1471.
150	5.09	33.36	149	26.39	166.5	3.90	2.58	1472.
160	5.14	33.50	159	26.49	156.3	4.06	2.83	1472.
170	5.25	33.68	169	26.63	143.8	4.21	3.08	1473.
180	5.22	33.78	179	26.71	136.5	4.35	3.33	1473.
190	5.12	33.81	189	26.74	133.3	4.48	3.58	1473.
200	5.05	33.82	199	26.75	132.1	4.61	3.85	1473.
210	4.99	33.83	209	26.77	130.5	4.75	4.12	1473.
220	4.87	33.82	219	26.78	130.0	4.88	4.41	1472.
230	4.75	33.83	228	26.80	128.0	5.00	4.70	1472.
240	4.63	33.83	238	26.81	126.8	5.13	5.01	1472.
250	4.55	33.83	248	26.82	126.0	5.26	5.33	1472.
260	4.48	33.83	258	26.83	125.3	5.38	5.65	1472.
270	4.42	33.84	268	26.85	123.8	5.51	5.99	1471.
280	4.33	33.87	278	26.88	120.9	5.63	6.33	1471.
290	4.31	33.88	288	26.89	120.1	5.75	6.68	1471.
300	4.24	33.89	298	26.90	118.6	5.87	7.04	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 37

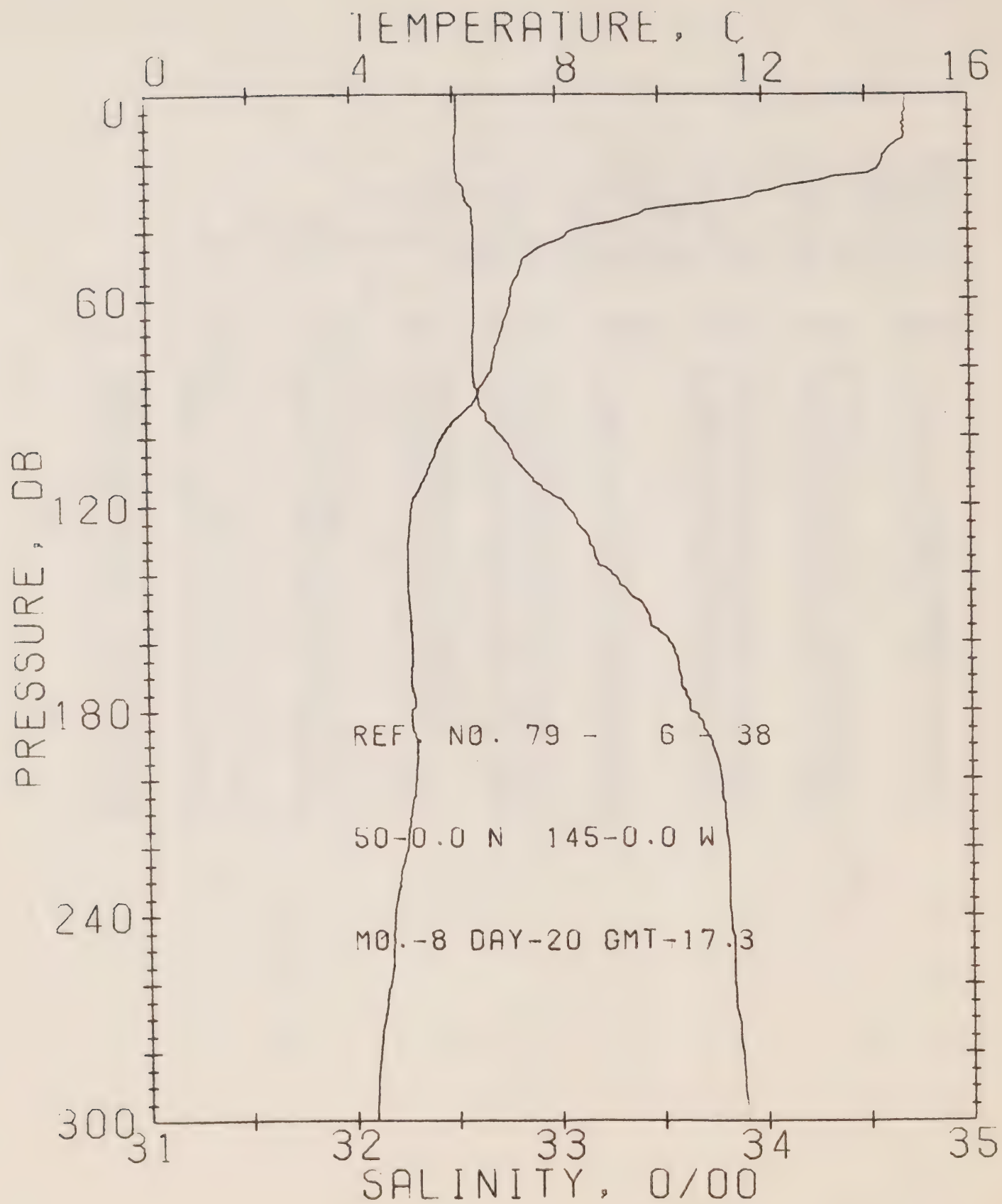
DATE 19/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.0 STATION P

RESULTS OF STP CAST 302 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.43	32.50	0	24.19	373.7	.00	.00	1502.
10	14.45	32.50	10	24.19	374.4	.37	.02	1503.
20	14.30	32.50	20	24.22	371.7	.75	.08	1502.
30	12.68	32.52	30	24.56	339.3	1.11	.17	1497.
50	7.37	32.60	50	25.50	249.4	1.69	.40	1478.
75	6.99	32.60	75	25.56	244.8	2.31	.79	1477.
100	6.01	32.67	99	25.74	227.7	2.90	1.33	1474.
125	5.33	32.93	124	26.02	200.7	3.44	1.94	1472.
150	5.09	33.36	149	26.39	166.5	3.90	2.58	1472.
175	5.25	33.73	174	26.66	140.8	4.28	3.20	1473.
200	5.05	33.82	199	26.75	132.1	4.61	3.85	1473.
225	4.79	33.82	223	26.79	128.9	4.94	4.56	1472.
250	4.55	33.83	248	26.82	126.0	5.26	5.33	1472.
300	4.24	33.89	298	26.90	118.6	5.87	7.04	1471.
400	4.02	34.00	397	27.01	108.8	7.01	11.10	1472.
500	3.82	34.09	496	27.10	101.1	8.06	15.92	1473.
600	3.65	34.17	595	27.18	93.9	9.03	21.35	1474.
800	3.30	34.29	793	27.31	83.0	10.80	33.88	1476.
1000	2.96	34.37	990	27.41	74.5	12.36	48.20	1478.
1200	2.68	34.44	1188	27.49	67.3	13.78	64.11	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 38

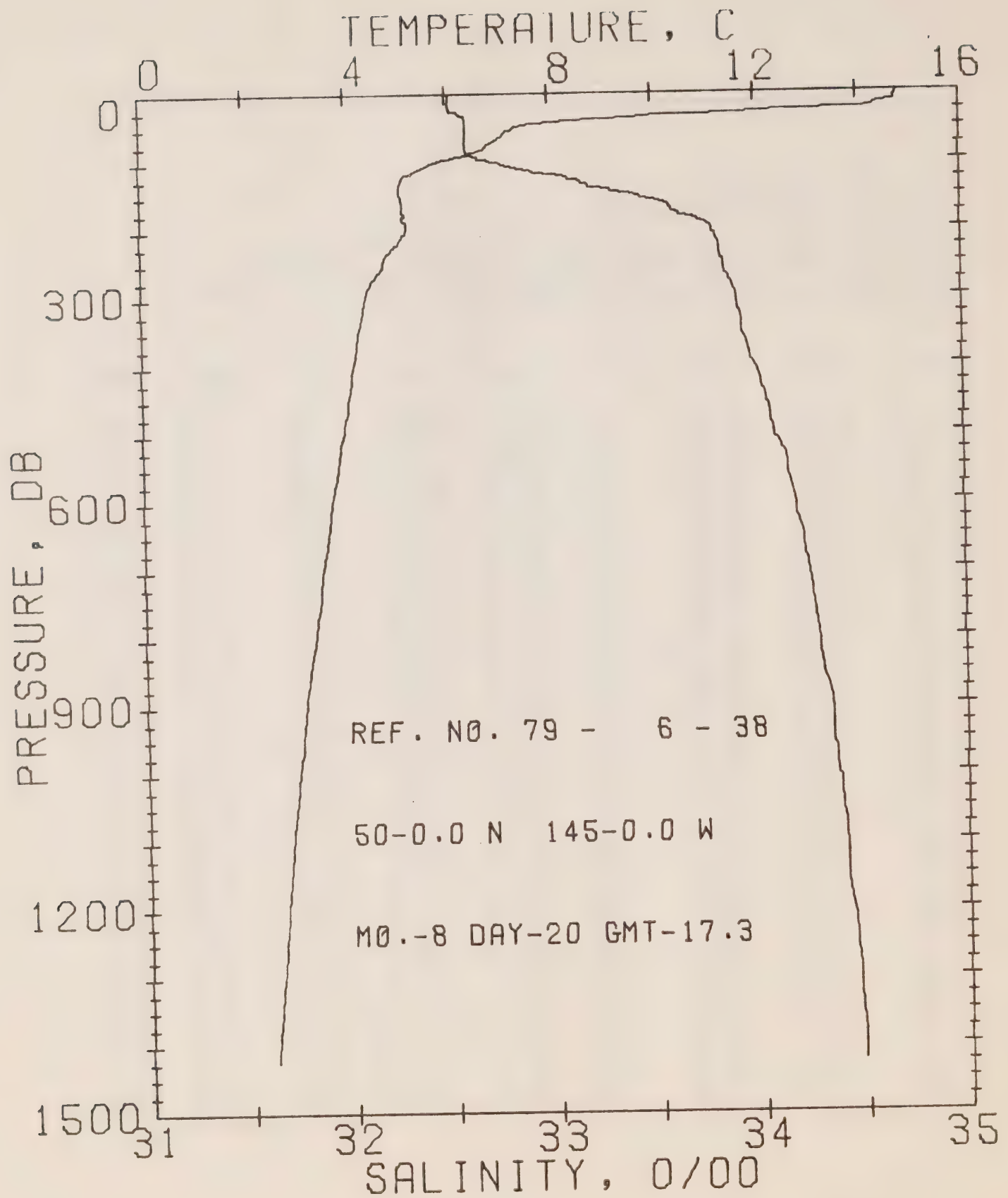
DATE 20/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 196 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.80	32.52	0	24.13	379.7	.00	.00	1504.
10	14.77	32.52	10	24.13	379.4	.38	.02	1504.
20	14.32	32.51	20	24.22	371.3	.75	.08	1502.
30	11.77	32.56	30	24.76	320.0	1.10	.16	1494.
40	8.28	32.60	40	25.37	261.7	1.39	.27	1482.
50	7.33	32.60	50	25.51	248.9	1.64	.38	1478.
60	7.10	32.60	60	25.54	246.0	1.89	.52	1477.
70	6.90	32.59	70	25.56	244.3	2.13	.68	1477.
80	6.73	32.59	80	25.58	242.2	2.38	.87	1476.
90	6.38	32.62	89	25.65	235.8	2.62	1.08	1475.
100	5.75	32.73	99	25.82	220.2	2.85	1.30	1473.
110	5.47	32.85	109	25.94	208.1	3.06	1.53	1472.
120	5.15	33.04	119	26.13	190.4	3.26	1.76	1471.
130	5.08	33.15	129	26.22	181.6	3.44	2.00	1471.
140	5.06	33.26	139	26.31	173.2	3.62	2.24	1471.
150	5.11	33.42	149	26.44	161.8	3.79	2.49	1472.
160	5.15	33.54	159	26.52	153.4	3.95	2.74	1472.
170	5.11	33.59	169	26.57	149.3	4.10	2.99	1472.
180	5.13	33.63	179	26.60	146.7	4.25	3.26	1473.
190	5.22	33.74	189	26.67	139.6	4.39	3.53	1473.
200	5.20	33.79	199	26.71	136.0	4.53	3.80	1473.
210	5.10	33.80	209	26.74	134.0	4.66	4.08	1473.
220	5.01	33.82	218	26.76	131.6	4.79	4.37	1473.
230	4.87	33.82	228	26.78	130.1	4.93	4.67	1473.
240	4.76	33.83	238	26.80	128.5	5.05	4.98	1472.
250	4.73	33.84	248	26.81	127.2	5.18	5.30	1472.
260	4.68	33.84	258	26.82	126.8	5.31	5.63	1472.
270	4.55	33.86	268	26.85	123.6	5.43	5.97	1472.
280	4.47	33.86	278	26.87	121.8	5.56	6.31	1472.
290	4.40	33.89	288	26.89	120.3	5.68	6.66	1472.
300	4.36	33.90	298	26.90	119.2	5.80	7.02	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 38

DATE 20/ 8/79

POSITION 50- .0N, 145- .0W

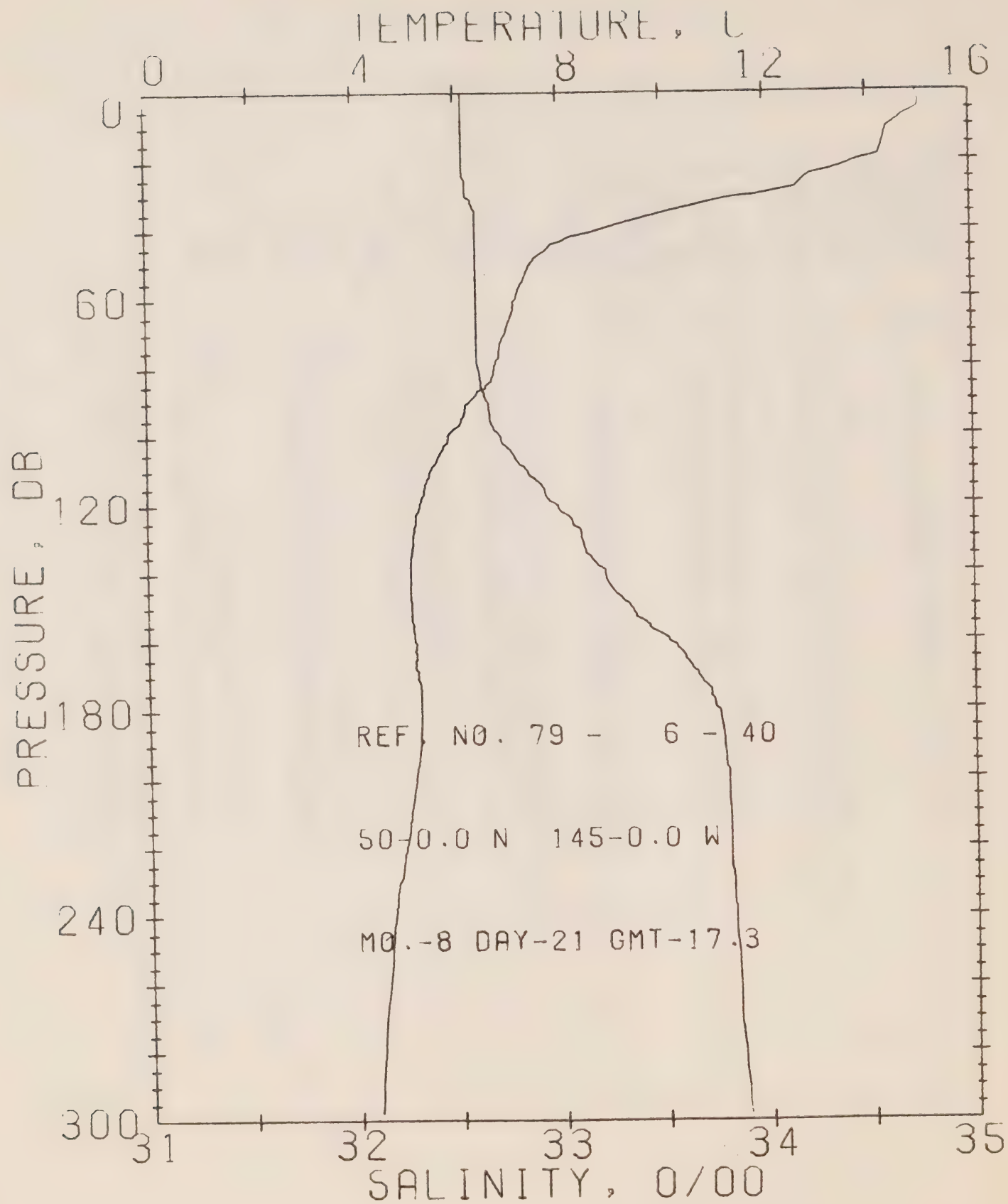
GMT 17.3

STATION P

RESULTS OF STP CAST 298 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.80	32.52	0	24.13	379.7	.00	.00	1504.
10	14.77	32.52	10	24.13	379.4	.38	.02	1504.
20	14.32	32.51	20	24.22	371.3	.75	.08	1502.
30	11.77	32.56	30	24.76	320.0	1.10	.16	1494.
50	7.33	32.60	50	25.51	248.9	1.64	.38	1478.
75	6.80	32.59	75	25.57	243.1	2.26	.77	1476.
100	5.75	32.73	99	25.82	220.2	2.85	1.30	1473.
125	5.11	33.09	124	26.17	186.3	3.35	1.88	1471.
150	5.11	33.42	149	26.44	161.8	3.79	2.49	1472.
175	5.16	33.61	174	26.58	148.5	4.17	3.12	1473.
200	5.20	33.79	199	26.71	136.0	4.53	3.80	1473.
225	4.93	33.82	223	26.77	130.7	4.86	4.52	1473.
250	4.73	33.84	248	26.81	127.2	5.18	5.30	1472.
300	4.36	33.90	298	26.90	119.2	5.80	7.02	1472.
400	4.11	33.98	397	26.99	111.2	6.95	11.14	1472.
500	3.91	34.07	496	27.08	102.9	8.02	16.03	1473.
600	3.66	34.17	595	27.19	93.8	9.00	21.50	1474.
800	3.29	34.28	793	27.31	82.9	10.76	34.04	1476.
1000	2.94	34.37	990	27.41	74.3	12.32	48.32	1478.
1200	2.68	34.43	1188	27.48	67.8	13.74	64.19	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 40

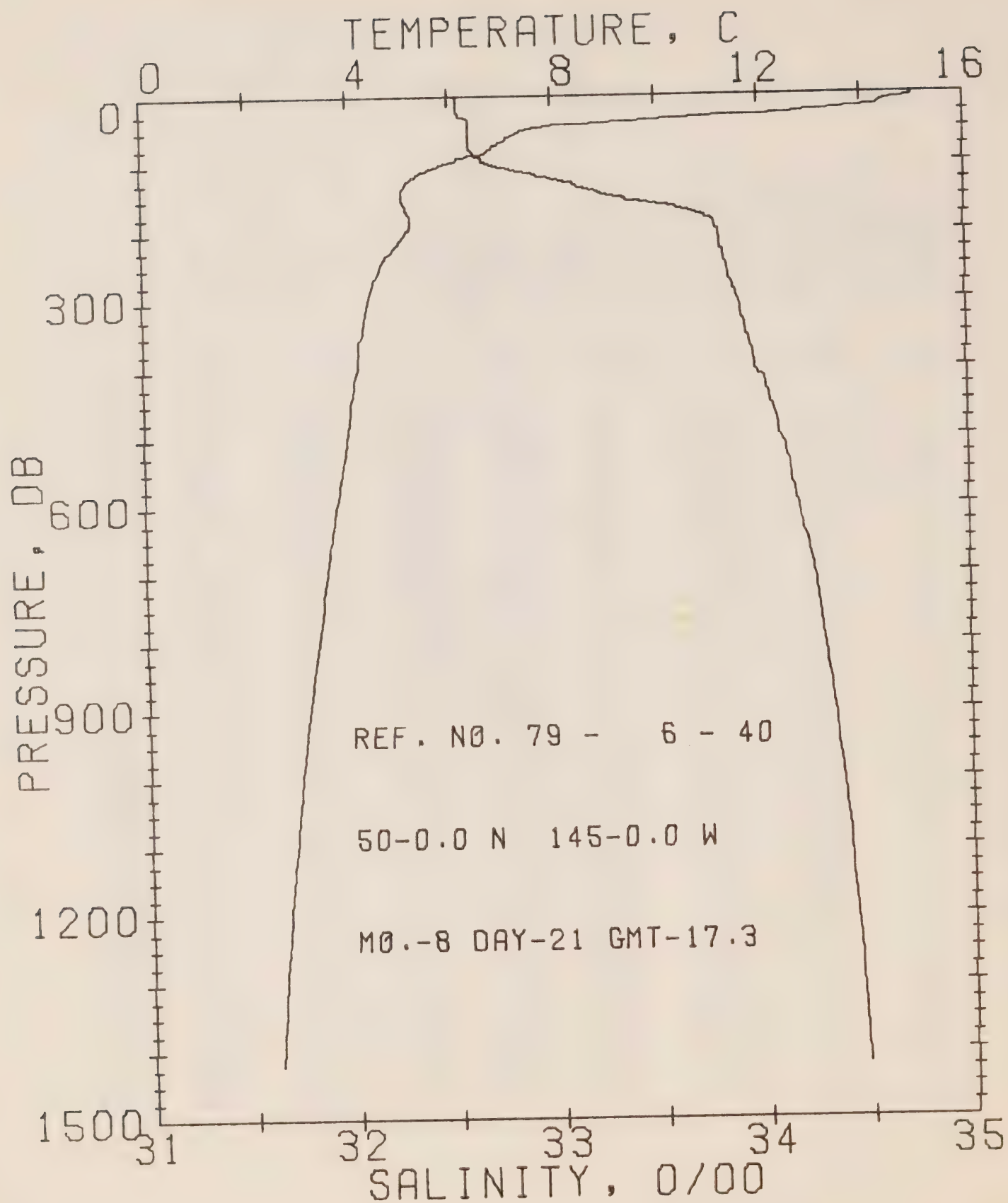
DATE 21/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 171 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.99	32.54	0	24.10	382.1	.00	.00	1504.
10	14.48	32.54	10	24.21	372.1	.38	.02	1503.
20	13.86	32.54	20	24.34	360.0	.75	.08	1501.
30	11.85	32.55	30	24.74	322.1	1.09	.16	1494.
40	8.79	32.60	40	25.30	269.1	1.38	.27	1483.
50	7.46	32.60	50	25.49	250.7	1.64	.38	1479.
60	7.16	32.60	60	25.53	246.8	1.89	.52	1478.
70	6.96	32.60	70	25.56	244.3	2.13	.69	1477.
80	6.74	32.61	80	25.59	241.2	2.37	.87	1476.
90	6.23	32.65	89	25.69	231.8	2.61	1.08	1474.
100	5.82	32.71	99	25.79	222.5	2.84	1.30	1473.
110	5.47	32.84	109	25.94	208.9	3.06	1.53	1472.
120	5.25	32.99	119	26.08	195.3	3.26	1.77	1471.
130	5.12	33.10	129	26.18	185.4	3.45	2.01	1471.
140	5.08	33.21	139	26.27	177.1	3.63	2.26	1471.
150	5.09	33.34	149	26.37	167.6	3.80	2.51	1472.
160	5.15	33.52	159	26.51	154.9	3.97	2.77	1472.
170	5.20	33.66	169	26.61	145.1	4.12	3.02	1473.
180	5.24	33.76	179	26.69	138.2	4.26	3.27	1473.
190	5.22	33.78	189	26.71	136.6	4.39	3.53	1473.
200	5.13	33.80	199	26.73	134.2	4.53	3.80	1473.
210	5.02	33.81	209	26.75	132.3	4.66	4.08	1473.
220	4.91	33.81	218	26.77	131.2	4.80	4.37	1473.
230	4.80	33.82	228	26.79	129.3	4.93	4.67	1472.
240	4.69	33.83	238	26.81	127.4	5.05	4.98	1472.
250	4.62	33.84	248	26.82	126.1	5.18	5.29	1472.
260	4.57	33.85	258	26.83	124.9	5.31	5.62	1472.
270	4.49	33.85	268	26.84	124.0	5.43	5.96	1472.
280	4.45	33.87	278	26.86	122.2	5.55	6.30	1472.
290	4.41	33.88	288	26.88	121.1	5.68	6.65	1472.
300	4.37	33.89	298	26.89	119.9	5.80	7.02	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 40

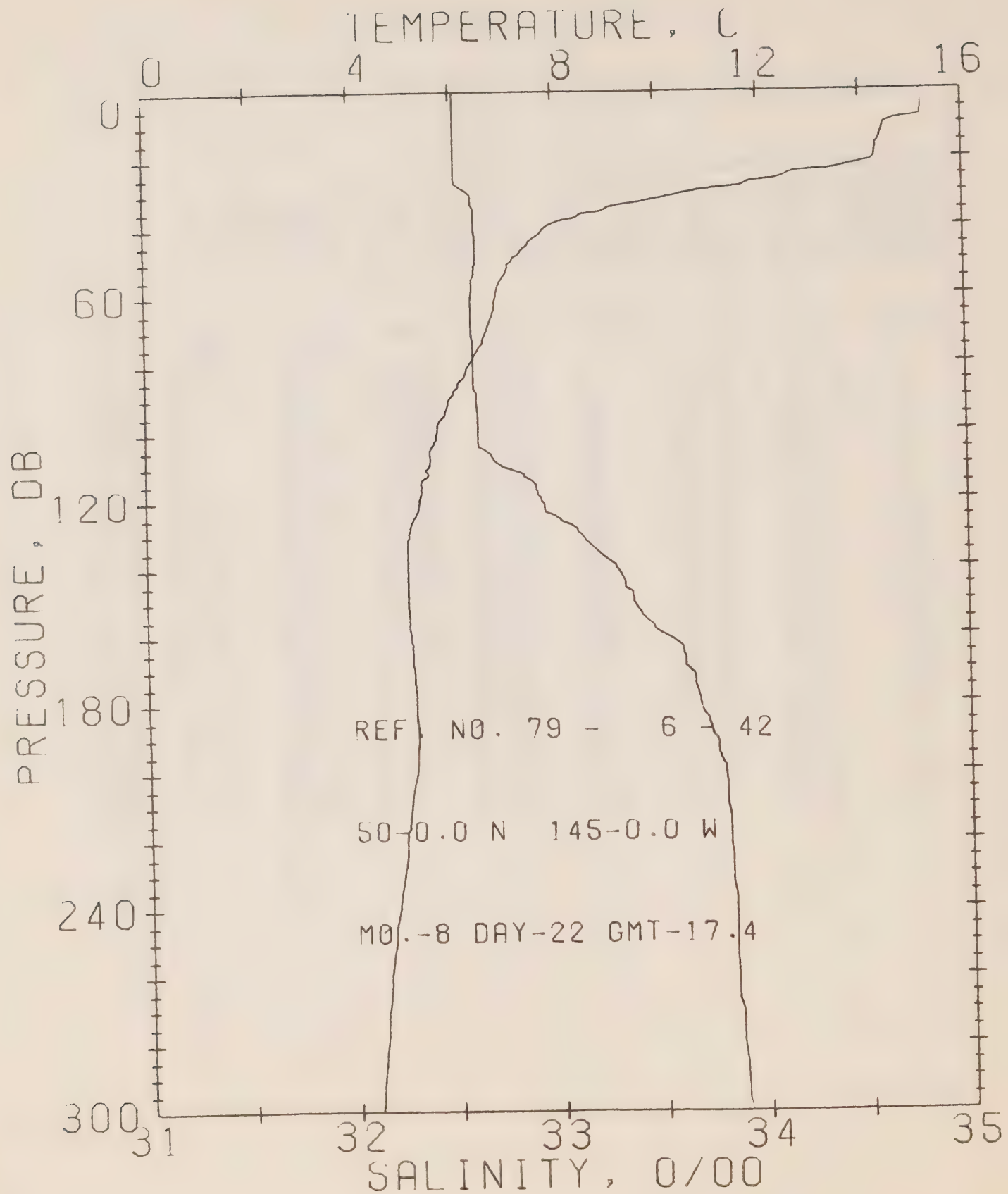
DATE 21/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 268 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.99	32.54	0	24.10	382.1	.00	.00	1504.
10	14.48	32.54	10	24.21	372.1	.38	.02	1503.
20	13.86	32.54	20	24.34	360.0	.75	.08	1501.
30	11.85	32.55	30	24.74	322.1	1.09	.16	1494.
50	7.46	32.60	50	25.49	250.7	1.64	.38	1479.
75	6.84	32.60	75	25.58	242.9	2.25	.78	1476.
100	5.82	32.71	99	25.79	222.5	2.84	1.30	1473.
125	5.17	33.05	124	26.14	189.5	3.36	1.89	1471.
150	5.09	33.34	149	26.37	167.6	3.80	2.51	1472.
175	5.24	33.72	174	26.66	141.2	4.19	3.15	1473.
200	5.13	33.80	199	26.73	134.2	4.53	3.80	1473.
225	4.86	33.81	223	26.77	130.7	4.86	4.52	1473.
250	4.62	33.84	248	26.82	126.1	5.18	5.29	1472.
300	4.37	33.89	298	26.89	119.9	5.80	7.02	1472.
400	4.14	33.97	397	26.98	112.4	6.96	11.15	1473.
500	3.92	34.08	496	27.09	102.3	8.02	16.02	1473.
600	3.69	34.17	595	27.18	94.5	9.00	21.51	1474.
800	3.29	34.29	793	27.32	82.5	10.76	34.03	1476.
1000	2.93	34.37	990	27.41	73.9	12.32	48.31	1478.
1200	2.66	34.43	1188	27.48	67.8	13.74	64.17	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 42

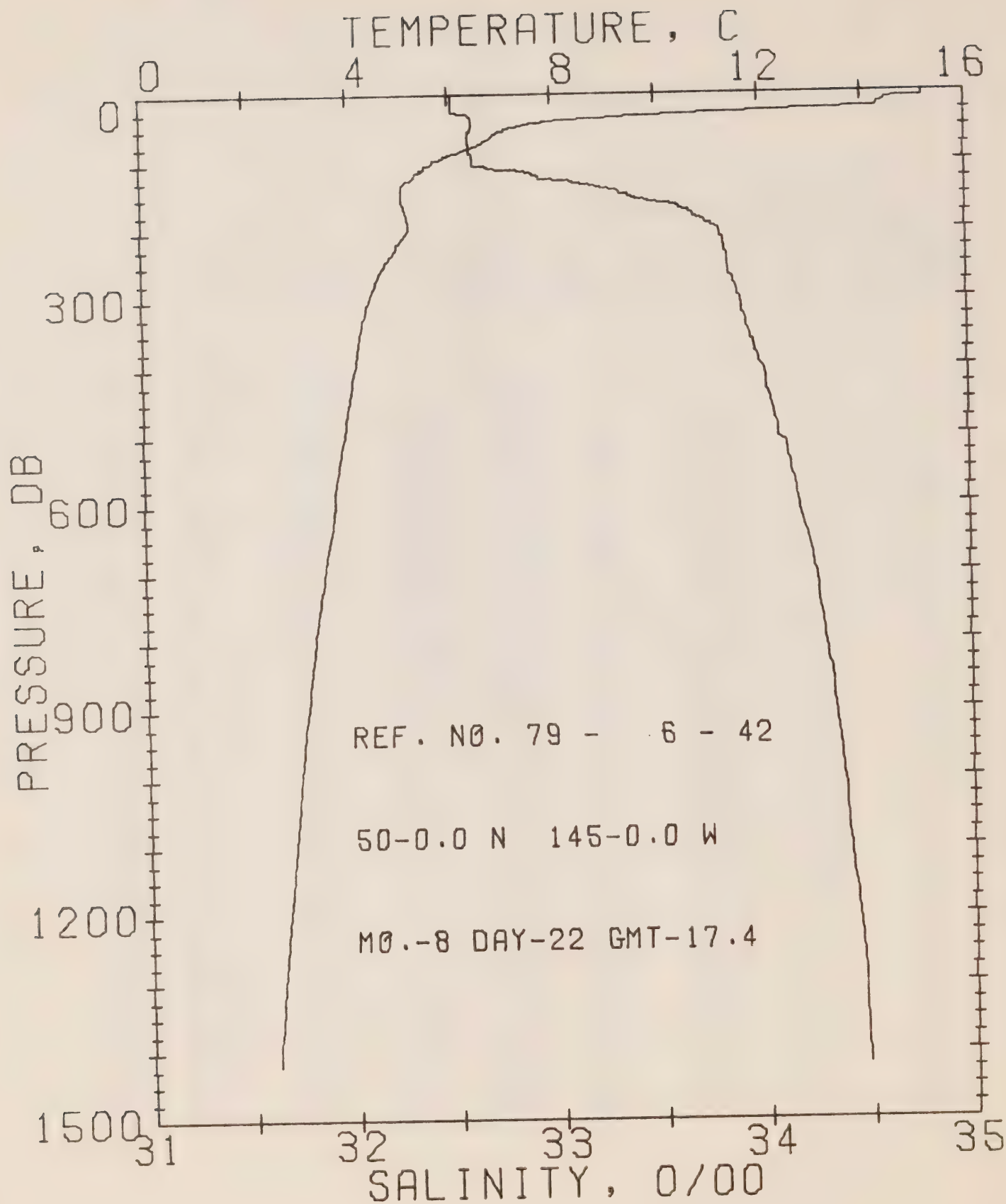
DATE 22/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 180 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.19	32.52	0	24.04	387.7	.00	.00	1505.
10	14.49	32.52	10	24.19	373.7	.39	.02	1503.
20	14.30	32.52	20	24.23	370.2	.76	.08	1502.
30	10.60	32.60	30	25.00	297.1	1.10	.16	1490.
40	7.84	32.61	40	25.45	254.9	1.37	.26	1480.
50	7.18	32.62	50	25.55	245.4	1.62	.37	1477.
60	6.86	32.59	60	25.57	243.5	1.86	.51	1476.
70	6.67	32.59	70	25.59	241.3	2.10	.67	1476.
80	6.32	32.60	80	25.64	236.5	2.34	.85	1474.
90	5.93	32.61	89	25.70	231.2	2.58	1.06	1473.
100	5.67	32.62	99	25.74	227.5	2.81	1.28	1472.
110	5.53	32.74	109	25.85	217.0	3.03	1.52	1472.
120	5.31	32.93	119	26.02	200.4	3.24	1.76	1471.
130	5.10	33.12	129	26.20	184.0	3.43	2.00	1471.
140	5.06	33.29	139	26.34	170.9	3.61	2.25	1471.
150	5.08	33.37	149	26.40	165.2	3.77	2.50	1472.
160	5.11	33.52	159	26.51	154.5	3.94	2.75	1472.
170	5.16	33.63	169	26.59	146.9	4.08	3.00	1473.
180	5.19	33.68	179	26.63	143.4	4.23	3.26	1473.
190	5.22	33.76	189	26.69	138.1	4.37	3.53	1473.
200	5.17	33.80	199	26.73	134.7	4.51	3.80	1473.
210	5.07	33.81	209	26.75	132.7	4.64	4.08	1473.
220	4.97	33.82	218	26.77	131.1	4.77	4.36	1473.
230	4.91	33.83	228	26.78	129.7	4.90	4.66	1473.
240	4.79	33.84	238	26.80	127.8	5.03	4.97	1473.
250	4.70	33.84	248	26.81	126.9	5.16	5.29	1472.
260	4.61	33.85	258	26.83	125.3	5.28	5.62	1472.
270	4.56	33.87	268	26.85	123.3	5.41	5.95	1472.
280	4.52	33.87	278	26.86	122.7	5.53	6.30	1472.
290	4.45	33.89	288	26.88	121.1	5.65	6.65	1472.
300	4.39	33.90	298	26.89	119.5	5.77	7.02	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 42

DATE 22/ 8/79

POSITION 50- .0N, 145- .0W

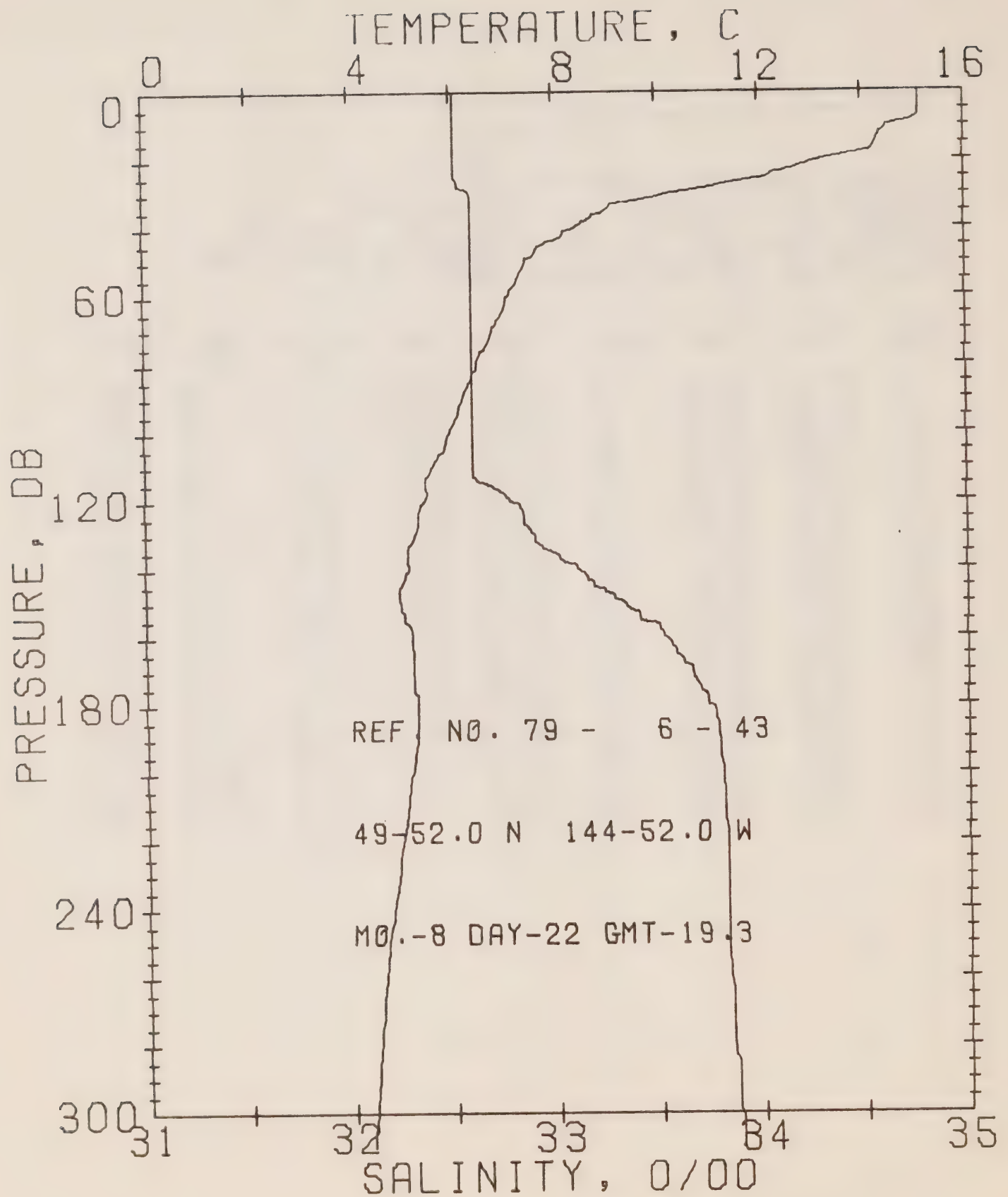
GMT 17.4

STATION P

RESULTS OF STP CAST 281 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.19	32.52	0	24.04	387.7	.00	.00	1505.
10	14.49	32.52	10	24.19	373.7	.39	.02	1503.
20	14.30	32.52	20	24.23	370.2	.76	.08	1502.
30	10.60	32.60	30	25.00	297.1	1.10	.16	1490.
50	7.18	32.62	50	25.55	245.4	1.62	.37	1477.
75	6.51	32.60	75	25.62	238.7	2.22	.76	1475.
100	5.67	32.62	99	25.74	227.5	2.81	1.28	1472.
125	5.20	33.01	124	26.10	193.3	3.34	1.88	1471.
150	5.08	33.37	149	26.40	165.2	3.77	2.50	1472.
175	5.18	33.66	174	26.62	144.7	4.16	3.13	1473.
200	5.17	33.80	199	26.73	134.7	4.51	3.80	1473.
225	4.95	33.83	223	26.78	130.2	4.84	4.51	1473.
250	4.70	33.84	248	26.81	126.9	5.16	5.29	1472.
300	4.39	33.90	298	26.89	119.5	5.77	7.02	1472.
400	4.11	34.00	397	27.00	109.7	6.92	11.11	1472.
500	3.89	34.08	496	27.09	102.4	7.98	15.96	1473.
600	3.68	34.17	595	27.18	94.4	8.96	21.42	1474.
800	3.24	34.29	793	27.32	81.9	10.71	33.85	1476.
1000	2.92	34.37	990	27.41	73.7	12.26	48.04	1478.
1200	2.66	34.44	1188	27.49	67.4	13.67	63.90	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 43

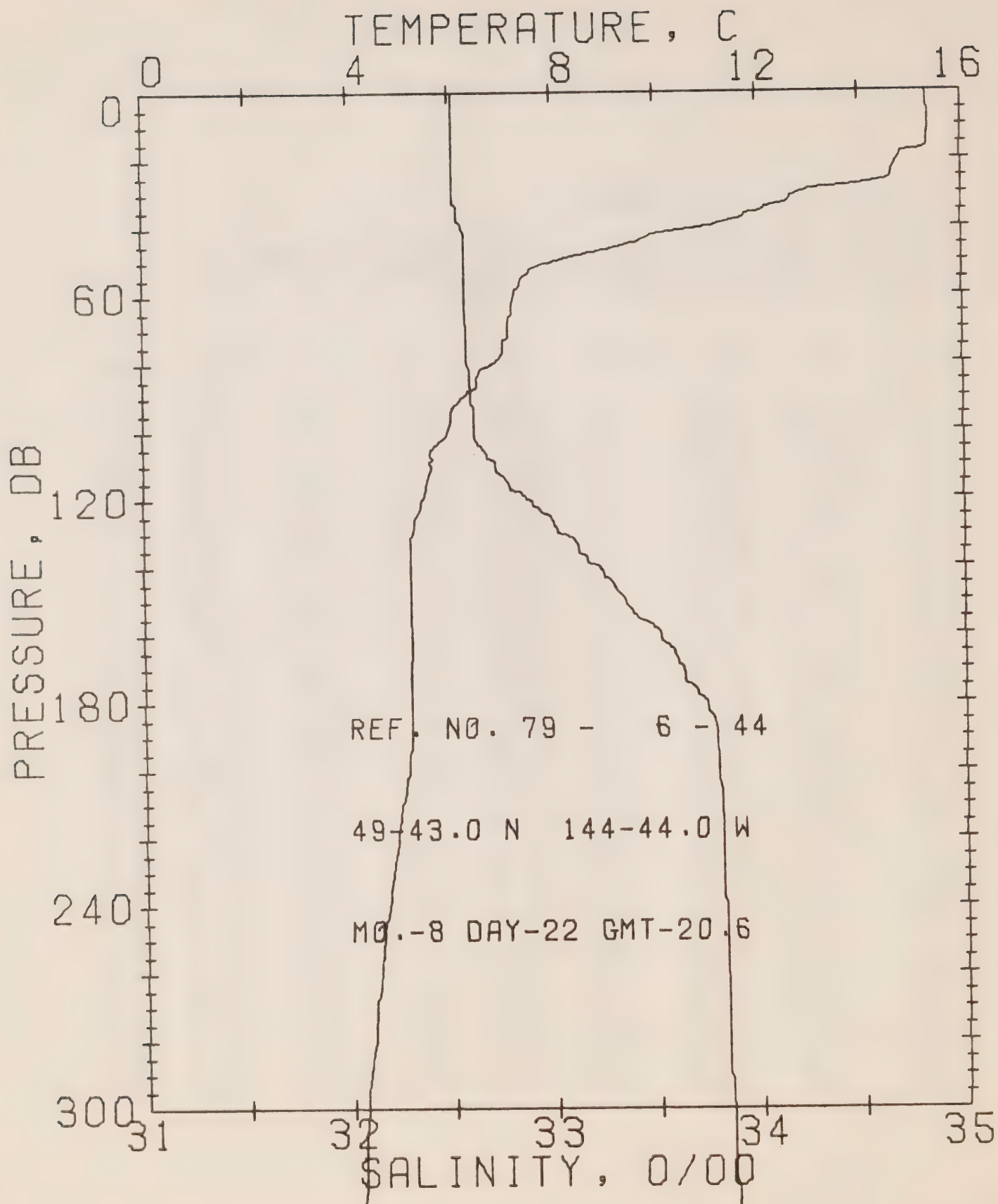
DATE 22/ 8/79

POSITION 49-52.0N, 144-52.0W GMT 19.3 STATION E3

RESULTS OF STP CAST 191 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.15	32.52	0	24.05	386.9	.00	.00	1505.
10	14.50	32.52	10	24.19	373.9	.39	.02	1503.
20	13.23	32.52	20	24.45	349.4	.75	.08	1499.
30	10.15	32.59	30	25.07	290.5	1.08	.16	1488.
40	8.37	32.60	40	25.36	263.0	1.35	.26	1482.
50	7.44	32.60	50	25.49	250.3	1.61	.37	1478.
60	7.07	32.60	60	25.54	245.6	1.85	.51	1477.
70	6.78	32.60	70	25.58	242.0	2.10	.67	1476.
80	6.48	32.60	80	25.62	238.4	2.34	.86	1475.
90	6.19	32.60	89	25.66	235.0	2.58	1.06	1474.
100	5.93	32.60	99	25.69	232.0	2.81	1.29	1473.
110	5.58	32.60	109	25.73	228.1	3.04	1.53	1472.
120	5.41	32.78	119	25.89	212.8	3.26	1.79	1472.
130	5.23	32.90	129	26.01	201.9	3.47	2.06	1471.
140	5.11	33.10	139	26.18	185.7	3.66	2.33	1471.
150	4.98	33.33	149	26.38	167.1	3.84	2.59	1471.
160	5.21	33.52	159	26.50	155.6	4.00	2.84	1473.
170	5.21	33.65	169	26.60	146.0	4.15	3.09	1473.
180	5.27	33.73	179	26.66	140.8	4.29	3.35	1473.
190	5.26	33.78	189	26.71	136.7	4.43	3.61	1474.
200	5.15	33.80	199	26.73	134.4	4.57	3.88	1473.
210	5.05	33.81	209	26.75	132.6	4.70	4.16	1473.
220	4.95	33.82	218	26.77	130.9	4.83	4.45	1473.
230	4.85	33.82	228	26.78	129.9	4.96	4.74	1473.
240	4.76	33.82	238	26.79	129.0	5.09	5.05	1472.
250	4.64	33.82	248	26.80	127.8	5.22	5.37	1472.
260	4.58	33.83	258	26.82	126.4	5.35	5.71	1472.
270	4.53	33.84	268	26.83	125.3	5.47	6.04	1472.
280	4.46	33.84	278	26.84	124.2	5.60	6.39	1472.
290	4.41	33.87	288	26.87	121.9	5.72	6.75	1472.
300	4.37	33.87	298	26.88	121.1	5.84	7.12	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 44

DATE 22/ 8/79

POSITION 49-43.0N, 144-44.0W

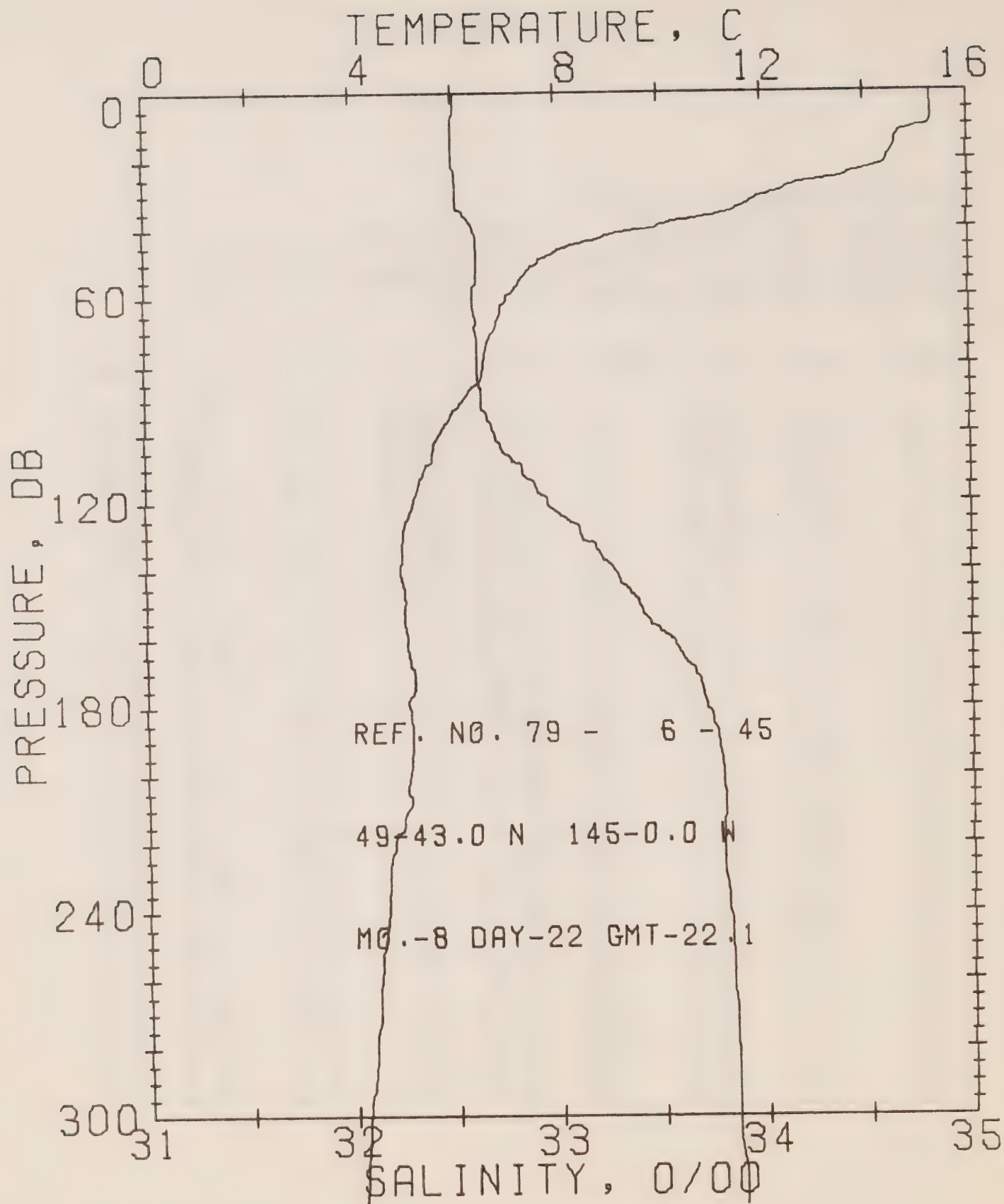
GMT 20.6

STATION E4

RESULTS OF STP CAST 180 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.34	32.52	0	24.01	390.8	.00	.00	1505.
10	15.35	32.52	10	24.01	391.3	.39	.02	1506.
20	14.75	32.52	20	24.14	379.3	.78	.08	1504.
30	12.84	32.52	30	24.53	342.3	1.15	.17	1498.
40	10.86	32.56	40	24.93	304.6	1.48	.29	1491.
50	8.00	32.57	50	25.39	260.2	1.76	.42	1481.
60	7.23	32.57	60	25.50	249.9	2.01	.56	1478.
70	7.14	32.58	70	25.52	248.2	2.26	.72	1478.
80	6.79	32.58	80	25.57	243.8	2.50	.91	1476.
90	6.21	32.60	89	25.66	235.2	2.74	1.12	1474.
100	5.91	32.61	99	25.70	231.0	2.98	1.35	1473.
110	5.63	32.71	109	25.81	220.4	3.20	1.59	1472.
120	5.42	32.87	119	25.96	206.2	3.42	1.84	1472.
130	5.23	33.02	129	26.11	192.9	3.61	2.09	1471.
140	5.19	33.21	139	26.26	178.3	3.80	2.34	1472.
150	5.20	33.34	149	26.36	168.8	3.97	2.60	1472.
160	5.20	33.51	159	26.50	156.2	4.14	2.86	1472.
170	5.16	33.62	169	26.59	147.7	4.29	3.12	1473.
180	5.21	33.73	179	26.67	140.1	4.43	3.37	1473.
190	5.20	33.78	189	26.71	136.4	4.57	3.63	1473.
200	5.12	33.79	199	26.73	134.9	4.71	3.90	1473.
210	4.97	33.80	209	26.75	132.5	4.84	4.18	1473.
220	4.88	33.81	219	26.77	130.9	4.97	4.47	1473.
230	4.78	33.81	228	26.78	129.8	5.10	4.77	1472.
240	4.69	33.82	238	26.80	128.2	5.23	5.08	1472.
250	4.57	33.82	248	26.81	127.0	5.36	5.40	1472.
260	4.53	33.82	258	26.82	126.3	5.49	5.73	1472.
270	4.43	33.83	268	26.83	124.9	5.61	6.07	1471.
280	4.39	33.83	278	26.84	124.5	5.74	6.42	1471.
290	4.29	33.83	288	26.85	123.6	5.86	6.78	1471.
300	4.23	33.85	298	26.87	121.8	5.98	7.14	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 45

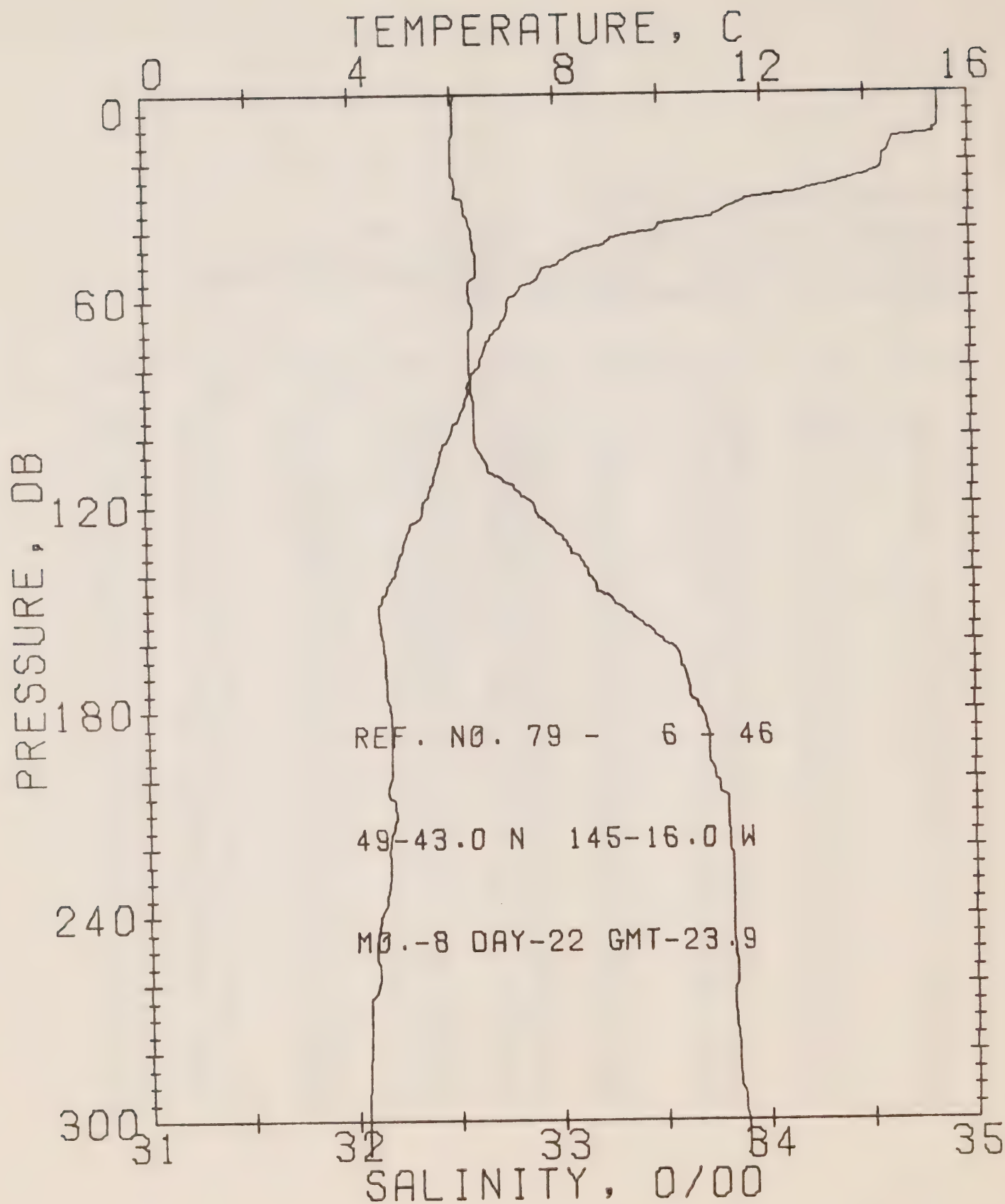
DATE 22/ 8/79

POSITION 49-43.0N, 145- .0W GMT 22.1 STATION C1

RESULTS OF STP CAST 199 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.31	32.51	0	24.01	390.9	.00	.00	1505.
10	15.22	32.50	10	24.02	390.1	.39	.02	1505.
20	14.43	32.50	20	24.19	374.2	.77	.08	1503.
30	12.14	32.52	30	24.66	329.5	1.12	.17	1495.
40	9.88	32.60	40	25.12	285.7	1.43	.28	1488.
50	7.62	32.62	50	25.48	251.3	1.70	.40	1479.
60	7.04	32.59	60	25.54	246.0	1.94	.54	1477.
70	6.75	32.60	70	25.59	241.4	2.19	.70	1476.
80	6.55	32.61	80	25.62	238.5	2.43	.88	1475.
90	6.17	32.63	89	25.69	232.5	2.66	1.09	1474.
100	5.68	32.69	99	25.79	222.4	2.89	1.31	1472.
110	5.40	32.83	109	25.94	208.8	3.11	1.54	1472.
120	5.16	32.95	119	26.06	197.2	3.31	1.78	1471.
130	4.95	33.11	129	26.20	183.5	3.50	2.02	1470.
140	4.92	33.27	139	26.34	170.9	3.68	2.26	1471.
150	4.98	33.39	149	26.43	162.6	3.84	2.51	1471.
160	5.08	33.54	159	26.53	152.6	4.00	2.76	1472.
170	5.19	33.65	169	26.61	145.3	4.15	3.01	1473.
180	5.09	33.71	179	26.67	140.3	4.29	3.26	1473.
190	5.11	33.77	189	26.71	136.4	4.43	3.52	1473.
200	5.05	33.79	199	26.73	134.1	4.57	3.79	1473.
210	5.01	33.80	209	26.75	132.9	4.70	4.07	1473.
220	4.77	33.79	219	26.77	131.1	4.83	4.36	1472.
230	4.64	33.79	228	26.78	129.6	4.96	4.66	1472.
240	4.61	33.81	238	26.80	128.1	5.09	4.97	1472.
250	4.53	33.82	248	26.82	126.5	5.22	5.29	1472.
260	4.46	33.83	258	26.83	125.1	5.34	5.61	1471.
270	4.43	33.84	268	26.84	124.1	5.47	5.95	1472.
280	4.36	33.85	278	26.85	123.1	5.59	6.29	1471.
290	4.30	33.85	288	26.86	122.2	5.72	6.65	1471.
300	4.21	33.85	298	26.87	121.3	5.84	7.02	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 46

DATE 22/ 8/79

POSITION 49-43.0N, 145-16.0W

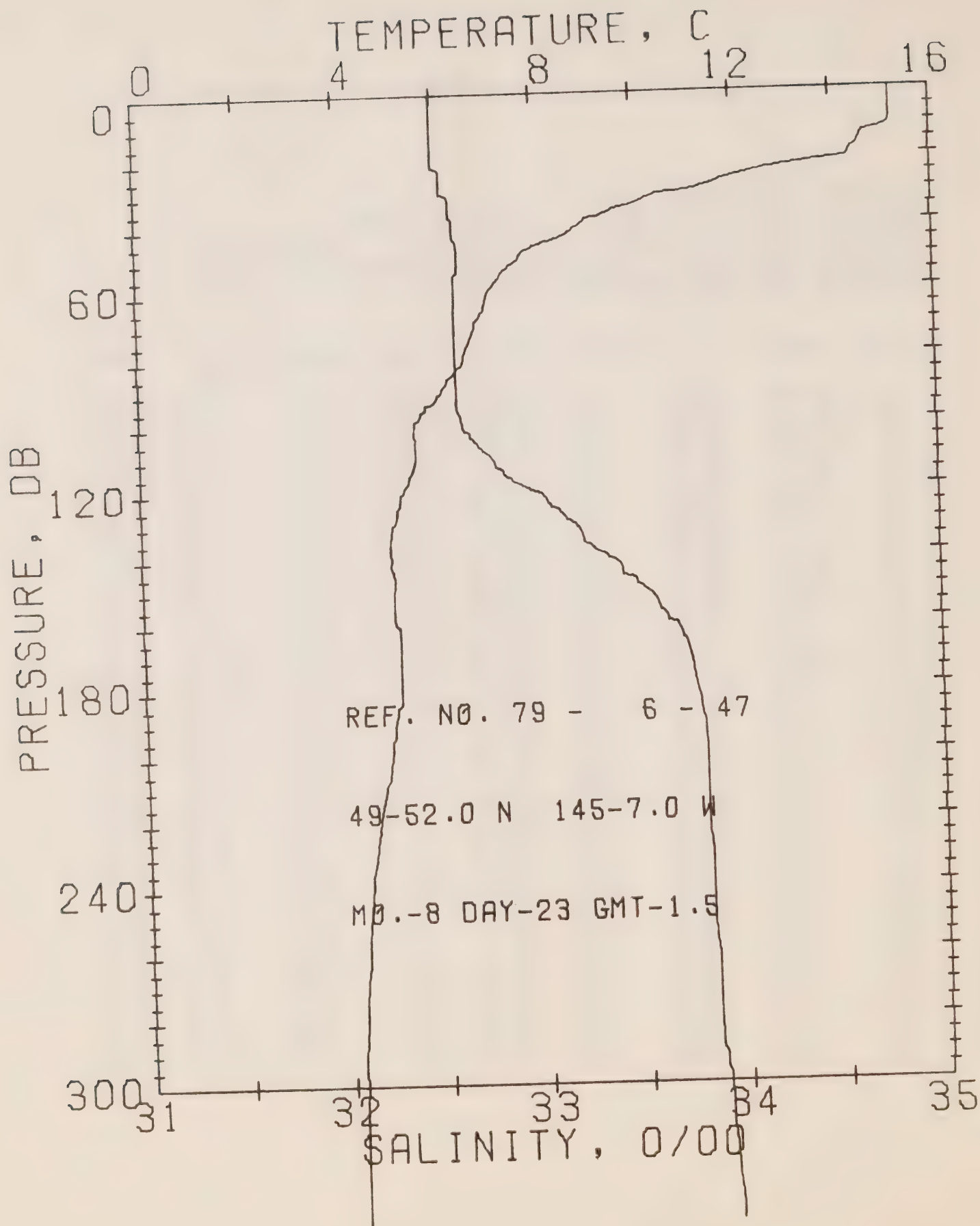
GMT 23.9

STATION W4

RESULTS OF STP CAST 205 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.43	32.52	0	23.99	392.7	.00	.00	1506.
10	15.41	32.51	10	23.99	393.3	.39	.02	1506.
20	14.34	32.50	20	24.21	372.4	.77	.08	1503.
30	12.07	32.51	30	24.67	329.0	1.13	.17	1495.
40	9.90	32.59	40	25.11	286.8	1.44	.28	1488.
50	7.98	32.61	50	25.43	256.9	1.70	.40	1481.
60	7.05	32.58	60	25.53	246.9	1.95	.54	1477.
70	6.72	32.58	70	25.58	242.8	2.20	.70	1476.
80	6.44	32.57	80	25.60	240.2	2.44	.89	1475.
90	6.19	32.59	89	25.65	235.8	2.68	1.09	1474.
100	5.87	32.59	99	25.69	232.1	2.91	1.32	1473.
110	5.61	32.66	109	25.78	223.9	3.14	1.56	1472.
120	5.36	32.88	119	25.98	204.7	3.35	1.81	1472.
130	4.99	33.02	129	26.13	190.2	3.55	2.07	1470.
140	4.80	33.13	139	26.24	180.0	3.74	2.32	1470.
150	4.49	33.30	149	26.41	164.1	3.91	2.58	1469.
160	4.58	33.50	159	26.56	150.2	4.07	2.82	1470.
170	4.62	33.60	169	26.63	143.0	4.21	3.07	1470.
180	4.70	33.67	179	26.68	138.9	4.35	3.32	1471.
190	4.69	33.71	189	26.71	135.9	4.49	3.58	1471.
200	4.66	33.74	199	26.74	133.4	4.63	3.85	1471.
210	4.80	33.80	209	26.77	130.6	4.76	4.12	1472.
220	4.62	33.81	219	26.80	128.0	4.89	4.40	1471.
230	4.61	33.82	228	26.81	126.9	5.01	4.70	1472.
240	4.44	33.83	238	26.83	124.7	5.14	5.00	1471.
250	4.37	33.83	248	26.84	124.1	5.26	5.31	1471.
260	4.38	33.84	258	26.85	123.5	5.39	5.63	1471.
270	4.23	33.83	268	26.85	122.9	5.51	5.96	1471.
280	4.21	33.84	278	26.87	121.9	5.63	6.31	1471.
290	4.19	33.85	288	26.88	121.0	5.75	6.66	1471.
300	4.18	33.88	298	26.90	118.9	5.87	7.02	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 47

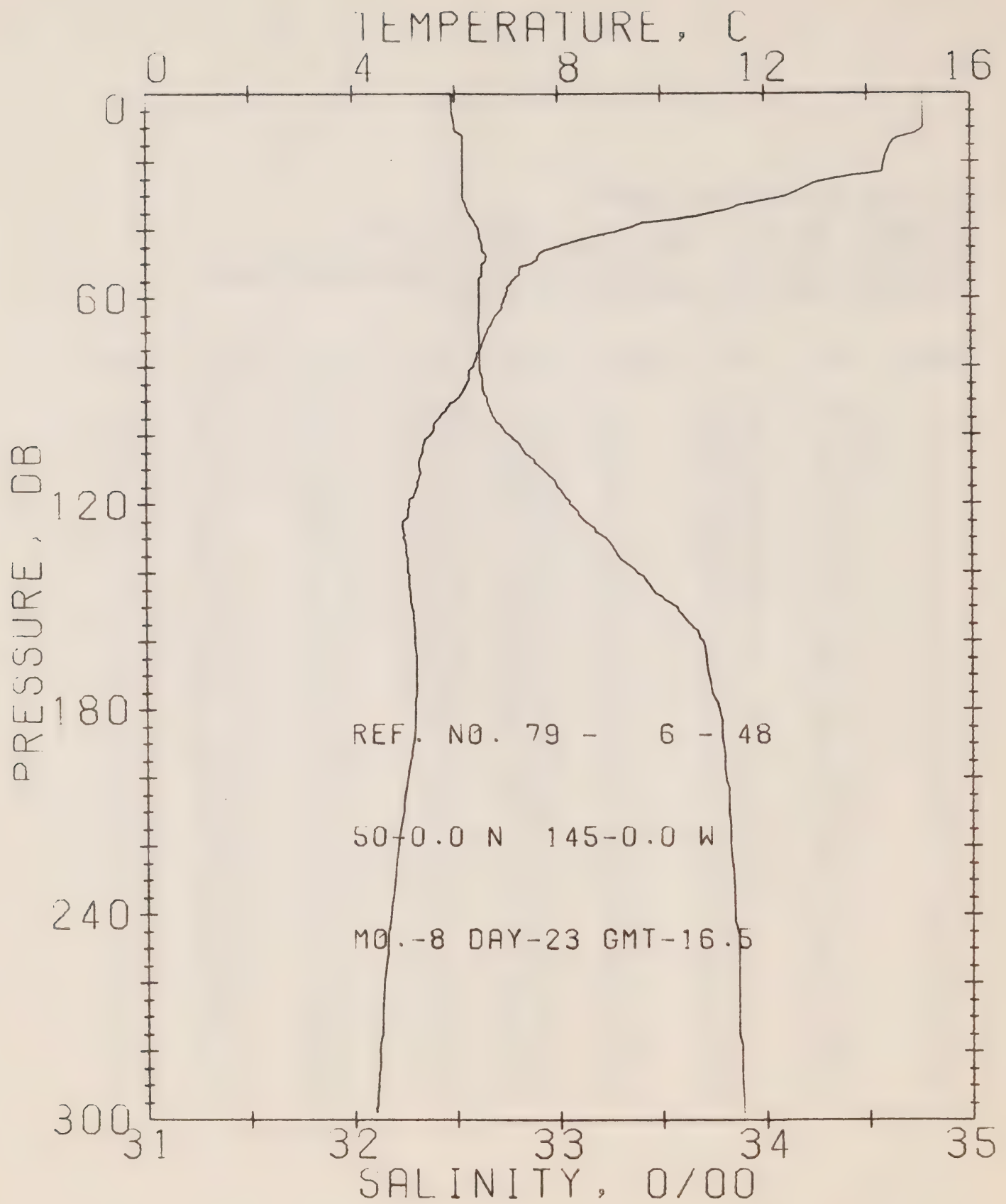
DATE 23/ 8/79

POSITION 49-52.0N, 145- 7.0W GMT 1.5 STATION W3

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.24	32.50	0	24.02	390.2	.00	.00	1505.
10	15.19	32.50	10	24.03	389.5	.39	.02	1505.
20	14.35	32.50	20	24.21	372.6	.77	.08	1503.
30	11.11	32.54	30	24.87	310.1	1.10	.16	1492.
40	8.87	32.59	40	25.28	271.0	1.39	.26	1484.
50	7.68	32.62	50	25.48	252.1	1.65	.38	1479.
60	7.06	32.60	60	25.55	245.6	1.90	.52	1477.
70	6.78	32.59	70	25.58	242.8	2.14	.68	1476.
80	6.53	32.59	80	25.61	239.8	2.38	.87	1475.
90	6.05	32.60	89	25.68	233.3	2.62	1.07	1474.
100	5.53	32.62	99	25.75	225.9	2.85	1.30	1472.
110	5.51	32.76	109	25.87	215.3	3.07	1.53	1472.
120	5.25	32.96	119	26.06	197.5	3.28	1.78	1471.
130	5.02	33.16	129	26.24	180.1	3.47	2.02	1471.
140	5.00	33.33	139	26.38	167.3	3.64	2.26	1471.
150	5.02	33.51	149	26.52	154.1	3.80	2.50	1472.
160	5.08	33.63	159	26.60	145.9	3.95	2.73	1472.
170	5.13	33.73	169	26.68	139.1	4.10	2.97	1473.
180	5.12	33.76	179	26.70	136.9	4.23	3.22	1473.
190	4.98	33.80	189	26.75	132.7	4.37	3.47	1472.
200	4.89	33.81	199	26.77	130.7	4.50	3.73	1472.
210	4.76	33.81	209	26.78	129.4	4.63	4.00	1472.
220	4.61	33.81	218	26.80	127.9	4.76	4.28	1471.
230	4.51	33.82	228	26.82	126.2	4.89	4.58	1471.
240	4.42	33.82	238	26.83	125.2	5.01	4.88	1471.
250	4.35	33.82	248	26.83	124.6	5.14	5.19	1471.
260	4.32	33.84	258	26.85	123.2	5.26	5.51	1471.
270	4.25	33.84	268	26.86	122.2	5.38	5.84	1471.
280	4.23	33.84	278	26.86	122.1	5.50	6.18	1471.
290	4.20	33.85	288	26.87	121.1	5.63	6.54	1471.
300	4.22	33.86	298	26.90	119.1	5.75	6.90	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 48

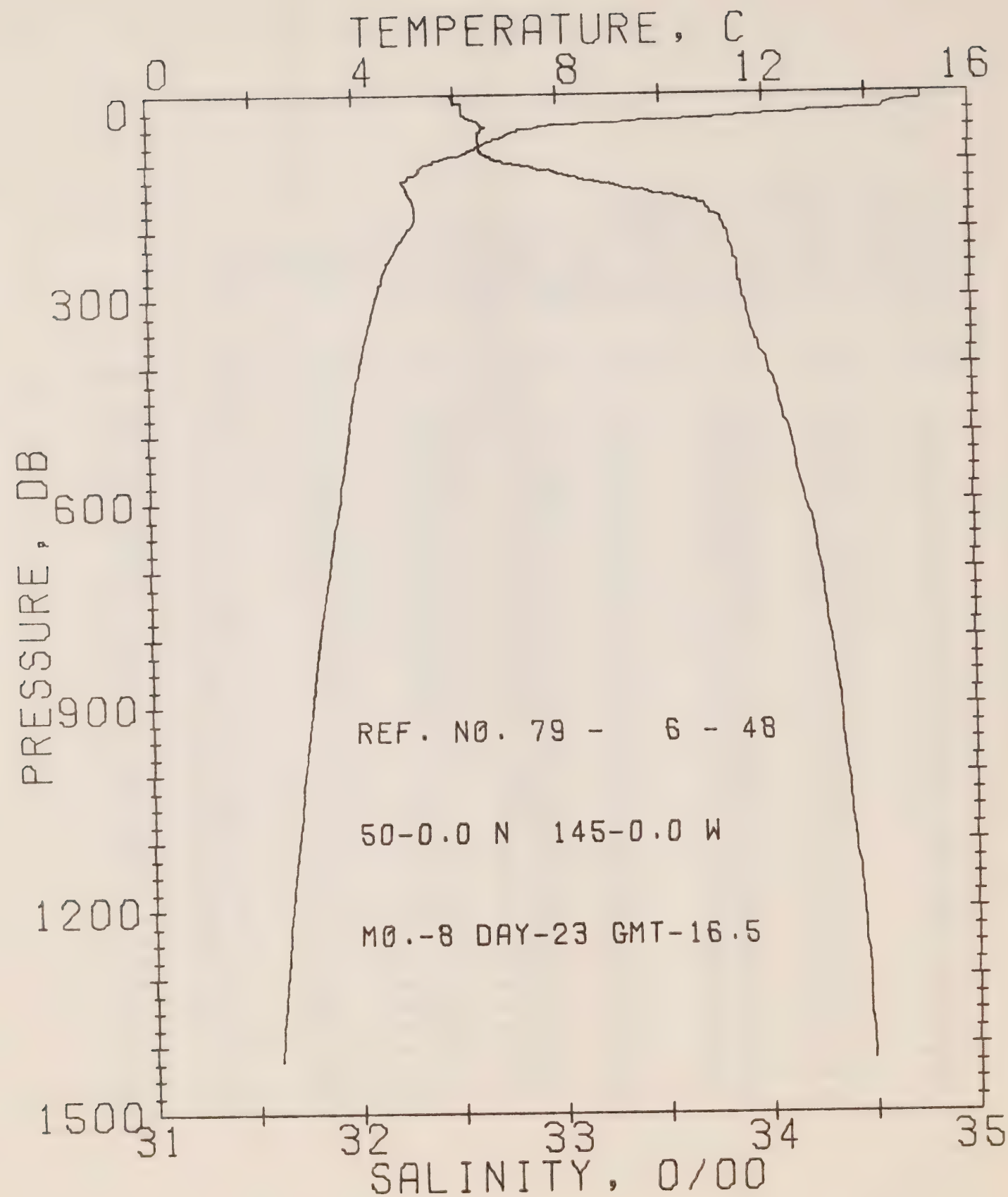
DATE 23/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.5 STATION P

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.08	32.49	0	24.05	387.6	.00	.00	1505.
10	15.08	32.50	10	24.05	387.2	.39	.02	1505.
20	14.34	32.54	20	24.24	369.5	.76	.08	1503.
30	12.44	32.54	30	24.62	333.5	1.12	.17	1496.
40	9.25	32.61	40	25.24	274.8	1.42	.27	1485.
50	7.47	32.63	50	25.51	248.5	1.68	.39	1479.
60	6.95	32.62	60	25.58	242.6	1.92	.53	1477.
70	6.61	32.61	70	25.62	238.9	2.16	.69	1476.
80	6.35	32.62	80	25.65	235.3	2.40	.87	1475.
90	6.01	32.65	89	25.72	229.1	2.63	1.07	1473.
100	5.51	32.77	99	25.88	214.4	2.85	1.29	1472.
110	5.31	32.93	109	26.02	200.3	3.06	1.51	1471.
120	5.09	33.05	119	26.14	189.0	3.25	1.74	1471.
130	4.98	33.23	129	26.30	174.4	3.44	1.97	1471.
140	5.08	33.36	139	26.41	164.4	3.61	2.20	1471.
150	5.15	33.57	149	26.55	151.1	3.77	2.43	1472.
160	5.21	33.70	159	26.64	142.1	3.91	2.67	1473.
170	5.22	33.72	169	26.66	140.6	4.05	2.90	1473.
180	5.20	33.78	179	26.71	136.4	4.19	3.15	1473.
190	5.15	33.79	189	26.73	134.8	4.33	3.41	1473.
200	5.05	33.81	199	26.75	132.7	4.46	3.67	1473.
210	4.95	33.82	209	26.77	130.8	4.59	3.95	1473.
220	4.86	33.83	218	26.79	129.1	4.72	4.23	1472.
230	4.78	33.84	228	26.81	127.3	4.85	4.53	1472.
240	4.70	33.85	238	26.82	126.1	4.98	4.83	1472.
250	4.63	33.87	248	26.84	123.9	5.10	5.14	1472.
260	4.57	33.87	258	26.85	123.4	5.23	5.46	1472.
270	4.53	33.87	268	26.86	123.0	5.35	5.79	1472.
280	4.49	33.88	278	26.87	121.9	5.47	6.14	1472.
290	4.45	33.88	288	26.87	121.4	5.59	6.49	1472.
300	4.41	33.89	298	26.88	120.5	5.71	6.85	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 48

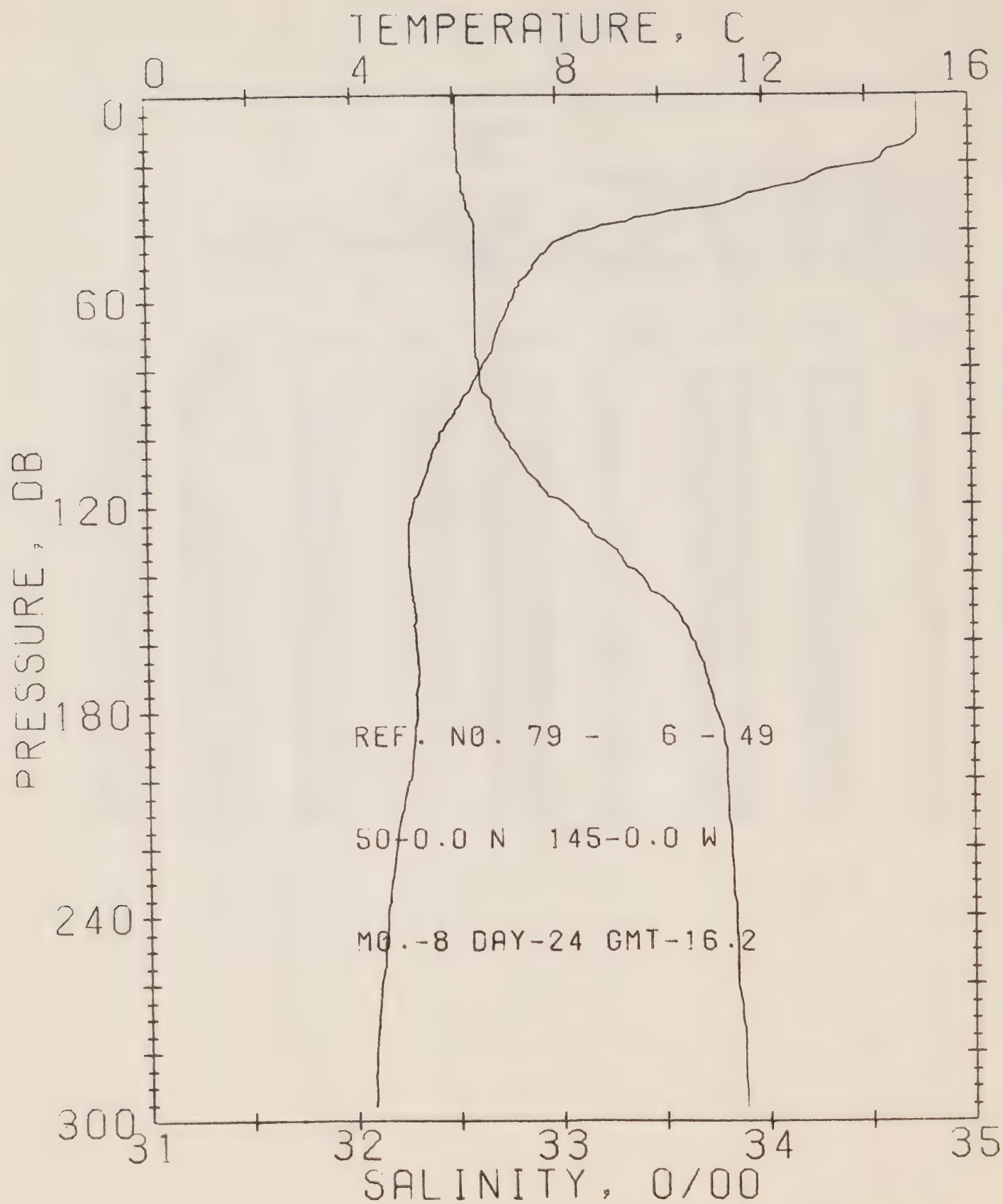
DATE 23/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.5 STATION P

RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.08	32.49	0	24.05	387.6	.00	.00	1505.
10	15.08	32.50	10	24.05	387.2	.39	.02	1505.
20	14.34	32.54	20	24.24	369.5	.76	.08	1503.
30	12.44	32.54	30	24.62	333.5	1.12	.17	1496.
50	7.47	32.63	50	25.51	248.5	1.68	.39	1479.
75	6.48	32.62	75	25.64	236.9	2.28	.78	1475.
100	5.51	32.77	99	25.88	214.4	2.85	1.29	1472.
125	4.97	33.13	124	26.22	181.7	3.35	1.85	1470.
150	5.15	33.57	149	26.55	151.1	3.77	2.43	1472.
175	5.22	33.74	174	26.67	139.4	4.12	3.03	1473.
200	5.05	33.81	199	26.75	132.7	4.46	3.67	1473.
225	4.82	33.84	223	26.80	128.2	4.79	4.38	1472.
250	4.63	33.87	248	26.84	123.9	5.10	5.14	1472.
300	4.41	33.89	298	26.88	120.5	5.71	6.85	1472.
400	4.08	34.00	397	27.01	109.3	6.86	10.95	1472.
500	3.84	34.11	496	27.12	99.8	7.91	15.73	1473.
600	3.66	34.18	595	27.19	93.3	8.88	21.15	1474.
800	3.24	34.30	793	27.33	81.4	10.61	33.46	1476.
1000	2.91	34.37	990	27.41	73.7	12.15	47.62	1478.
1200	2.64	34.44	1188	27.49	66.7	13.56	63.34	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 49

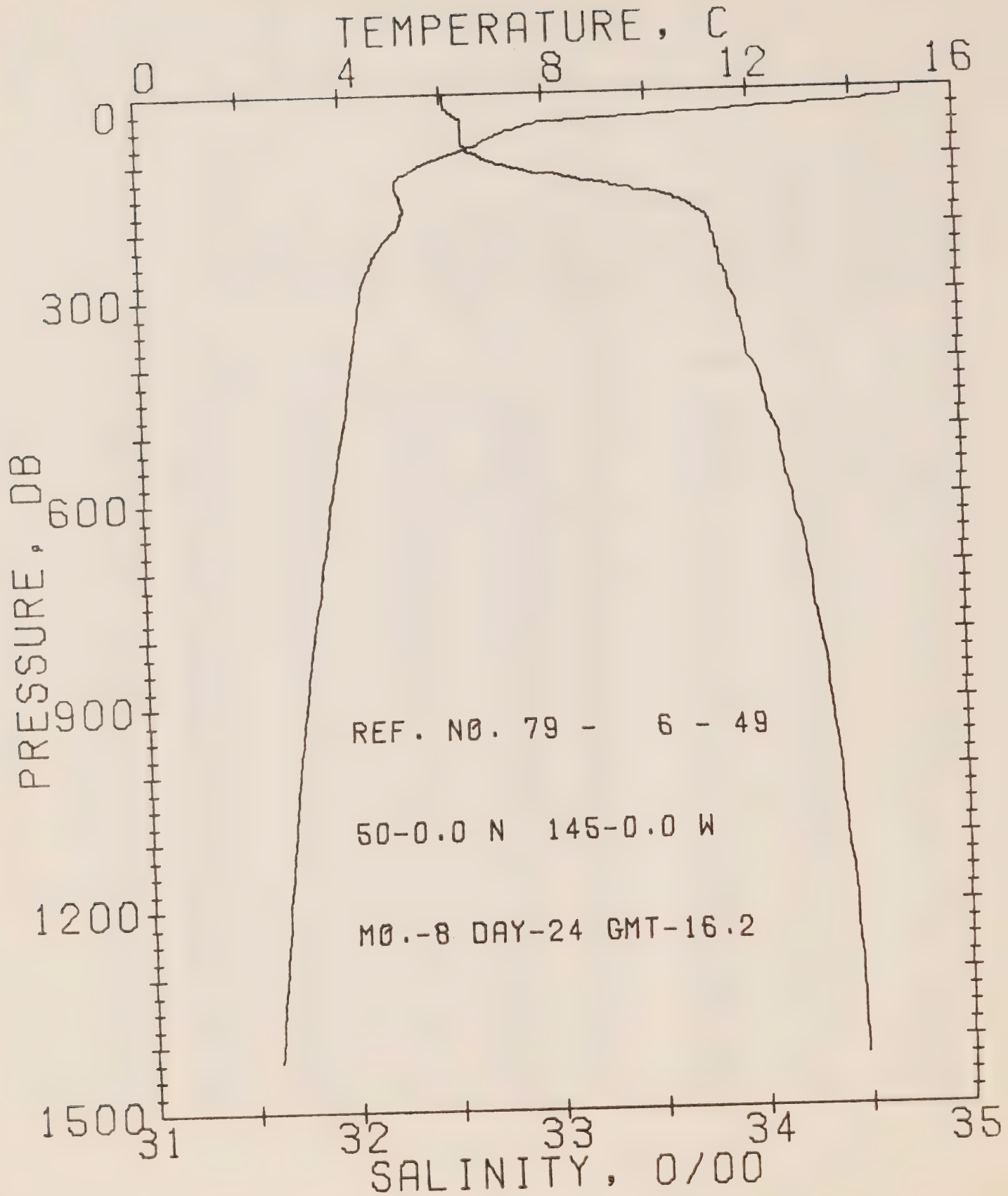
DATE 24/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.2 STATION P

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.01	32.51	0	24.08	384.7	.00	.00	1504.
10	15.01	32.51	10	24.08	385.0	.38	.02	1505.
20	14.17	32.52	20	24.26	367.6	.76	.08	1502.
30	11.61	32.55	30	24.78	317.9	1.10	.16	1494.
40	8.43	32.60	40	25.35	263.9	1.39	.27	1482.
50	7.52	32.60	50	25.48	251.4	1.65	.38	1479.
60	7.12	32.60	60	25.54	246.3	1.90	.52	1477.
70	6.79	32.60	70	25.58	242.2	2.14	.68	1476.
80	6.50	32.62	80	25.64	237.2	2.38	.87	1475.
90	6.11	32.67	89	25.72	228.8	2.61	1.07	1474.
100	5.67	32.74	99	25.83	218.5	2.84	1.29	1472.
110	5.45	32.85	109	25.95	207.9	3.05	1.52	1472.
120	5.16	33.04	119	26.13	190.5	3.25	1.75	1471.
130	5.06	33.22	129	26.28	176.0	3.44	1.98	1471.
140	5.10	33.39	139	26.41	163.9	3.61	2.22	1472.
150	5.17	33.55	149	26.53	152.8	3.76	2.45	1472.
160	5.20	33.65	159	26.61	145.8	3.91	2.69	1473.
170	5.24	33.70	169	26.65	142.2	4.06	2.93	1473.
180	5.19	33.75	179	26.69	138.1	4.20	3.18	1473.
190	5.12	33.80	189	26.73	134.4	4.33	3.44	1473.
200	5.07	33.80	199	26.74	133.5	4.47	3.70	1473.
210	4.88	33.81	209	26.77	130.7	4.60	3.98	1472.
220	4.77	33.82	218	26.79	128.9	4.73	4.26	1472.
230	4.68	33.83	228	26.81	127.2	4.86	4.55	1472.
240	4.58	33.84	238	26.83	125.5	4.98	4.86	1472.
250	4.54	33.85	248	26.84	124.4	5.11	5.17	1472.
260	4.46	33.85	258	26.85	123.6	5.23	5.49	1471.
270	4.41	33.87	268	26.87	121.7	5.35	5.82	1471.
280	4.35	33.88	278	26.88	120.4	5.48	6.16	1471.
290	4.34	33.89	288	26.89	119.8	5.60	6.51	1472.
300	4.31	33.90	298	26.90	118.9	5.71	6.87	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 49

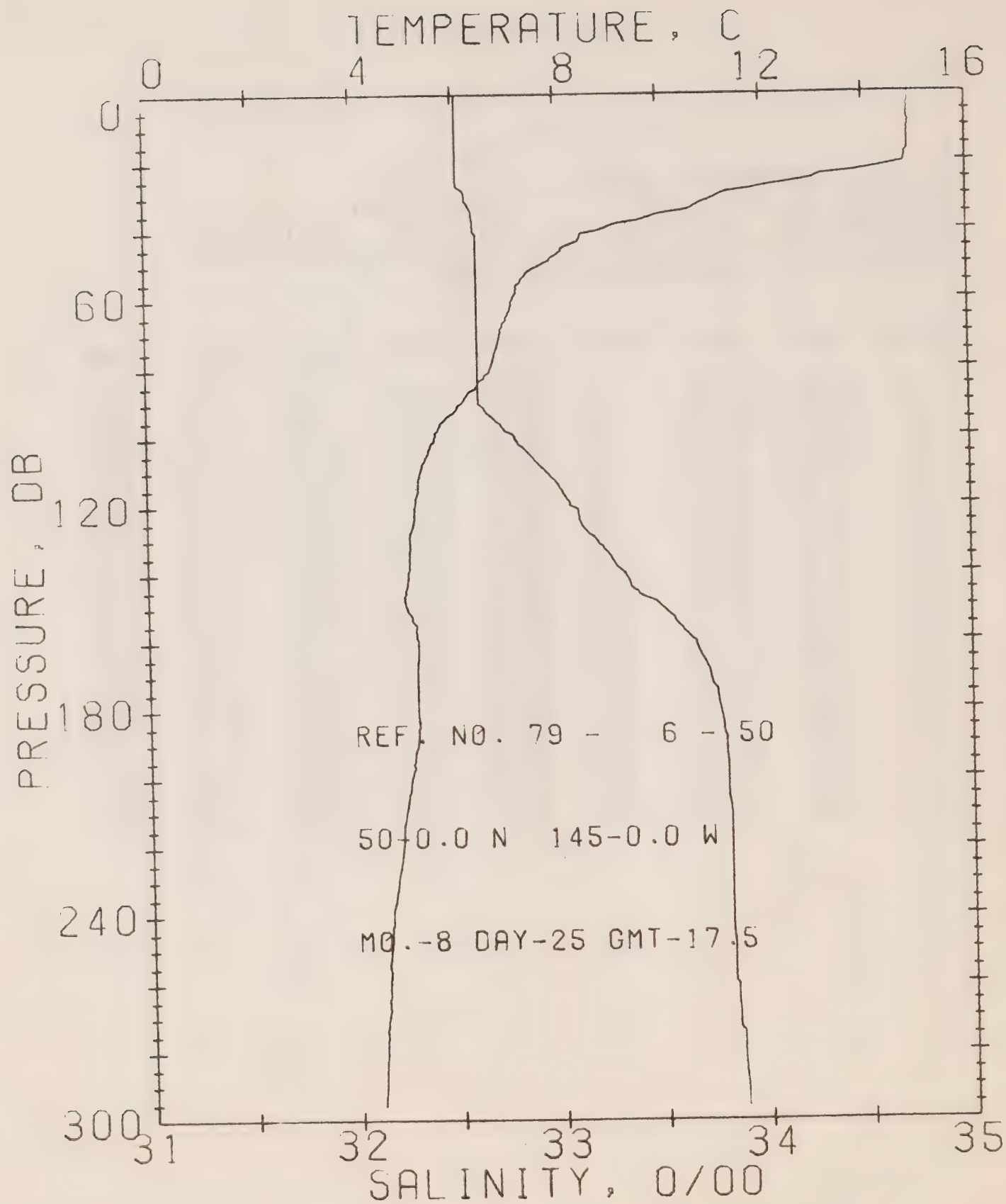
DATE 24/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.2 STATION P

RESULTS OF STP CAST 269 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.01	32.51	0	24.08	384.7	.00	.00	1504.
10	15.01	32.51	10	24.08	385.0	.38	.02	1505.
20	14.17	32.52	20	24.26	367.6	.76	.08	1502.
30	11.61	32.55	30	24.78	317.9	1.10	.16	1494.
50	7.52	32.60	50	25.48	251.4	1.65	.38	1479.
75	6.72	32.60	75	25.59	241.4	2.26	.77	1476.
100	5.67	32.74	99	25.83	218.5	2.84	1.29	1472.
125	5.08	33.14	124	26.22	182.2	3.35	1.87	1471.
150	5.17	33.55	149	26.53	152.8	3.76	2.45	1472.
175	5.16	33.73	174	26.67	139.5	4.13	3.05	1473.
200	5.07	33.80	199	26.74	133.5	4.47	3.70	1473.
225	4.73	33.83	223	26.80	127.9	4.79	4.41	1472.
250	4.54	33.85	248	26.84	124.4	5.11	5.17	1472.
300	4.31	33.90	298	26.90	118.9	5.71	6.87	1472.
400	4.09	33.99	397	26.99	110.7	6.86	10.96	1472.
500	3.90	34.10	496	27.10	101.0	7.92	15.81	1473.
600	3.65	34.17	595	27.18	93.9	8.90	21.28	1474.
800	3.24	34.29	793	27.32	81.8	10.65	33.74	1476.
1000	2.90	34.38	990	27.42	73.1	12.19	47.86	1478.
1200	2.65	34.44	1188	27.49	66.9	13.60	63.57	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 50

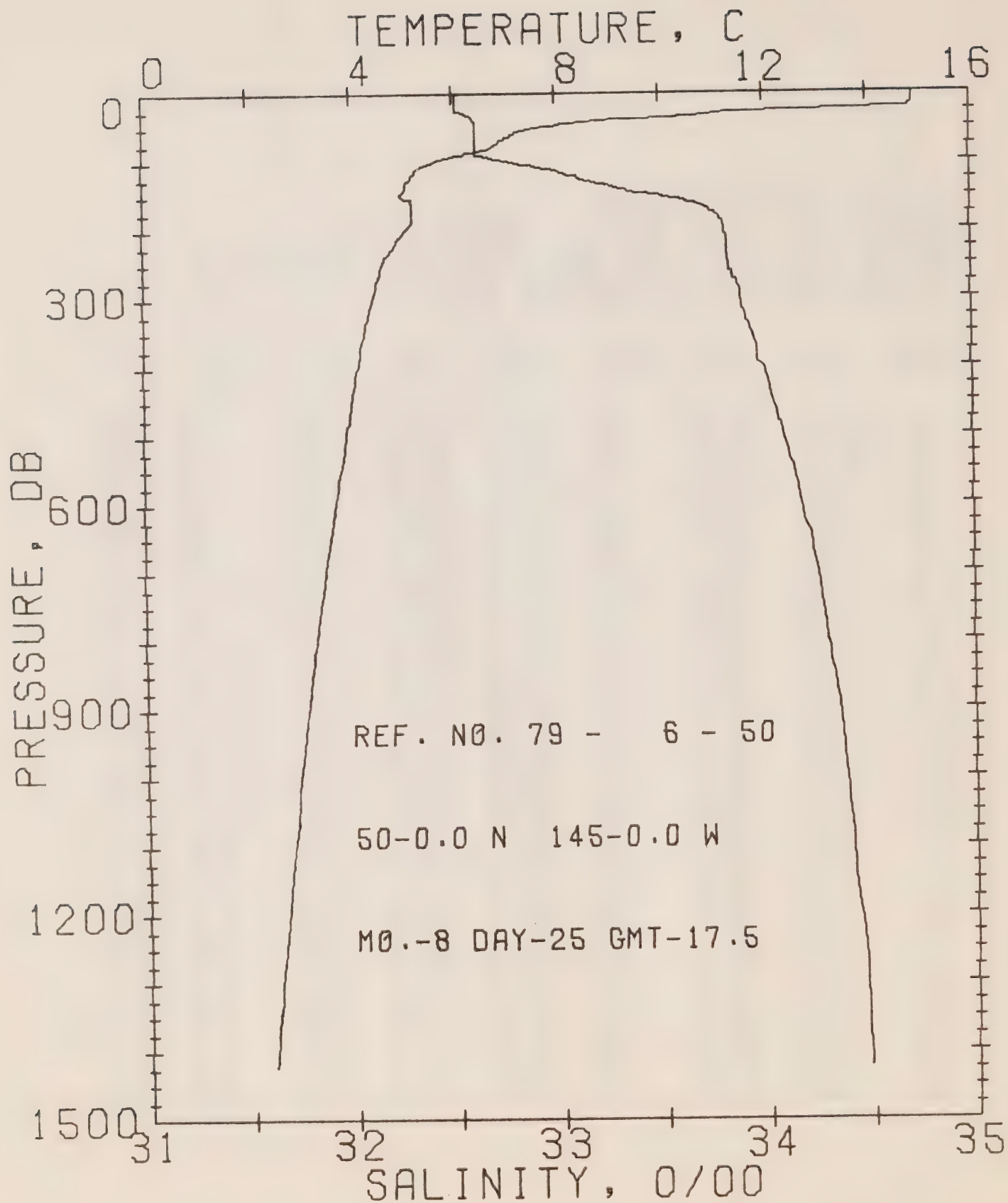
DATE 25/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.90	32.52	0	24.11	381.8	.00	.00	1504.
10	14.90	32.52	10	24.11	382.0	.38	.02	1504.
20	14.82	32.52	20	24.12	380.7	.76	.08	1504.
30	11.21	32.56	30	24.86	310.2	1.11	.17	1492.
40	8.85	32.60	40	25.29	270.0	1.40	.27	1484.
50	7.72	32.61	50	25.46	253.3	1.66	.39	1480.
60	7.14	32.61	60	25.54	245.8	1.91	.53	1477.
70	6.90	32.61	70	25.58	242.8	2.15	.69	1477.
80	6.69	32.61	80	25.60	240.3	2.39	.87	1476.
90	6.13	32.61	89	25.67	233.5	2.63	1.08	1474.
100	5.59	32.79	99	25.88	213.8	2.85	1.29	1472.
110	5.32	32.94	109	26.03	199.7	3.06	1.52	1471.
120	5.20	33.05	119	26.13	190.2	3.25	1.74	1471.
130	5.08	33.18	129	26.25	179.3	3.44	1.98	1471.
140	5.05	33.32	139	26.36	168.6	3.61	2.22	1471.
150	5.01	33.50	149	26.51	154.8	3.78	2.46	1472.
160	5.22	33.66	159	26.61	145.2	3.93	2.70	1473.
170	5.21	33.72	169	26.66	140.4	4.07	2.94	1473.
180	5.21	33.78	179	26.70	136.7	4.21	3.18	1473.
190	5.18	33.80	189	26.73	134.7	4.34	3.44	1473.
200	5.05	33.81	199	26.75	132.5	4.48	3.70	1473.
210	4.94	33.82	209	26.77	130.7	4.61	3.98	1473.
220	4.85	33.82	218	26.78	129.8	4.74	4.27	1472.
230	4.76	33.82	228	26.79	128.9	4.87	4.56	1472.
240	4.65	33.82	238	26.80	127.7	5.00	4.87	1472.
250	4.58	33.83	248	26.82	126.3	5.12	5.19	1472.
260	4.56	33.84	258	26.83	125.5	5.25	5.51	1472.
270	4.52	33.85	268	26.84	124.4	5.38	5.85	1472.
280	4.49	33.87	278	26.86	122.6	5.50	6.20	1472.
290	4.46	33.88	288	26.87	121.8	5.62	6.55	1472.
300	4.41	33.88	298	26.88	121.3	5.74	6.92	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 50

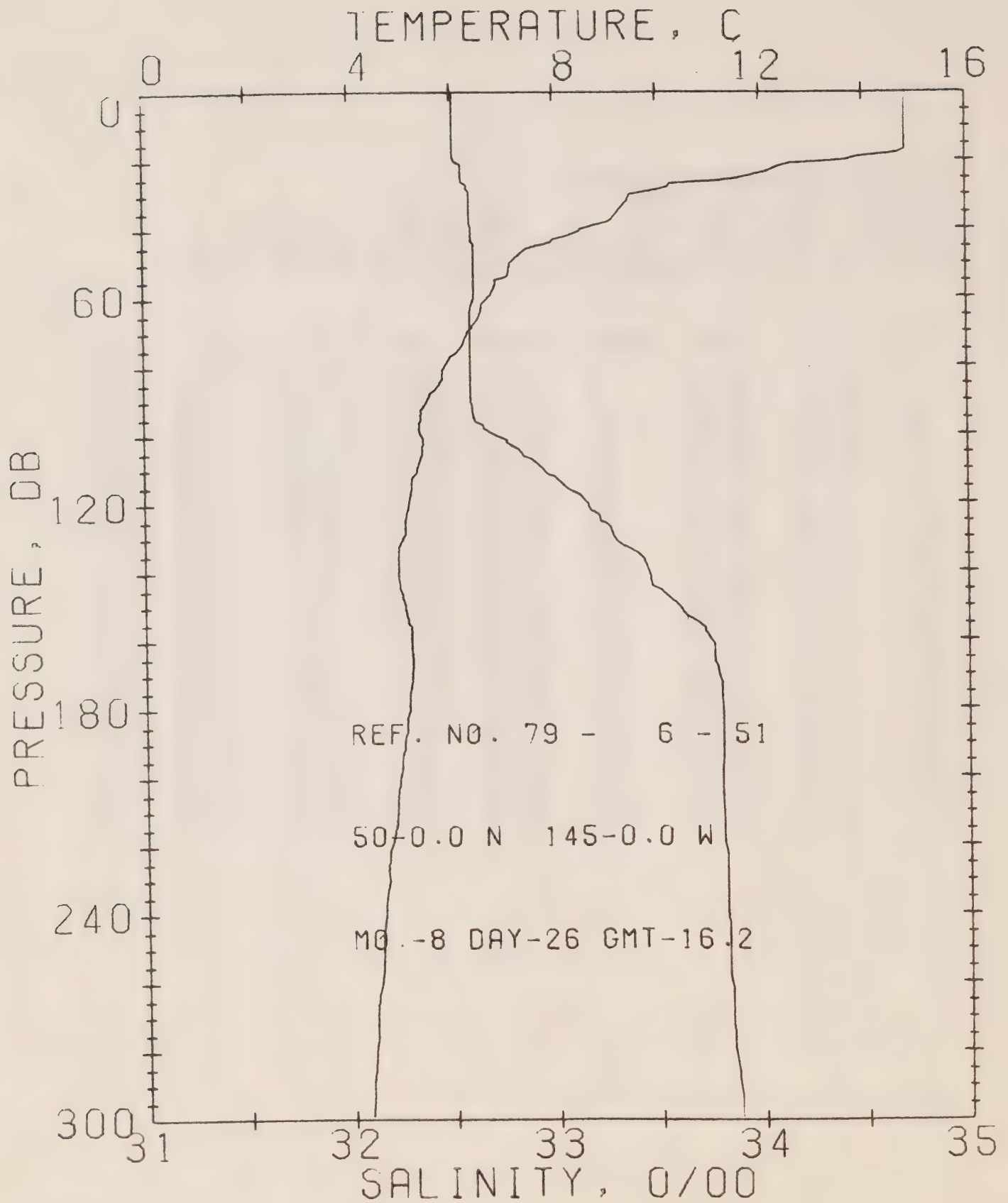
DATE 25/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 254 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.90	32.52	0	24.11	381.8	.00	.00	1504.
10	14.90	32.52	10	24.11	382.0	.38	.02	1504.
20	14.82	32.52	20	24.12	380.7	.76	.08	1504.
30	11.21	32.56	30	24.86	310.2	1.11	.17	1492.
50	7.72	32.61	50	25.46	253.3	1.66	.39	1480.
75	6.79	32.61	75	25.59	241.5	2.27	.78	1476.
100	5.59	32.79	99	25.88	213.8	2.85	1.29	1472.
125	5.16	33.11	124	26.18	185.7	3.35	1.86	1471.
150	5.01	33.50	149	26.51	154.8	3.78	2.46	1472.
175	5.21	33.76	174	26.69	137.8	4.14	3.06	1473.
200	5.05	33.81	199	26.75	132.5	4.48	3.70	1473.
225	4.81	33.82	223	26.79	129.3	4.80	4.41	1472.
250	4.58	33.83	248	26.82	126.3	5.12	5.19	1472.
300	4.41	33.88	298	26.88	121.3	5.74	6.92	1472.
400	4.10	33.99	397	26.99	110.7	6.90	11.04	1472.
500	3.86	34.08	496	27.09	101.9	7.96	15.91	1473.
600	3.65	34.16	595	27.18	94.3	8.94	21.39	1474.
800	3.25	34.29	793	27.32	82.2	10.69	33.83	1476.
1000	2.92	34.37	990	27.42	73.6	12.24	47.99	1478.
1200	2.66	34.44	1188	27.49	67.4	13.65	63.83	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 51

DATE 26/ 8/79

POSITION 50- .0N, 145- .0W

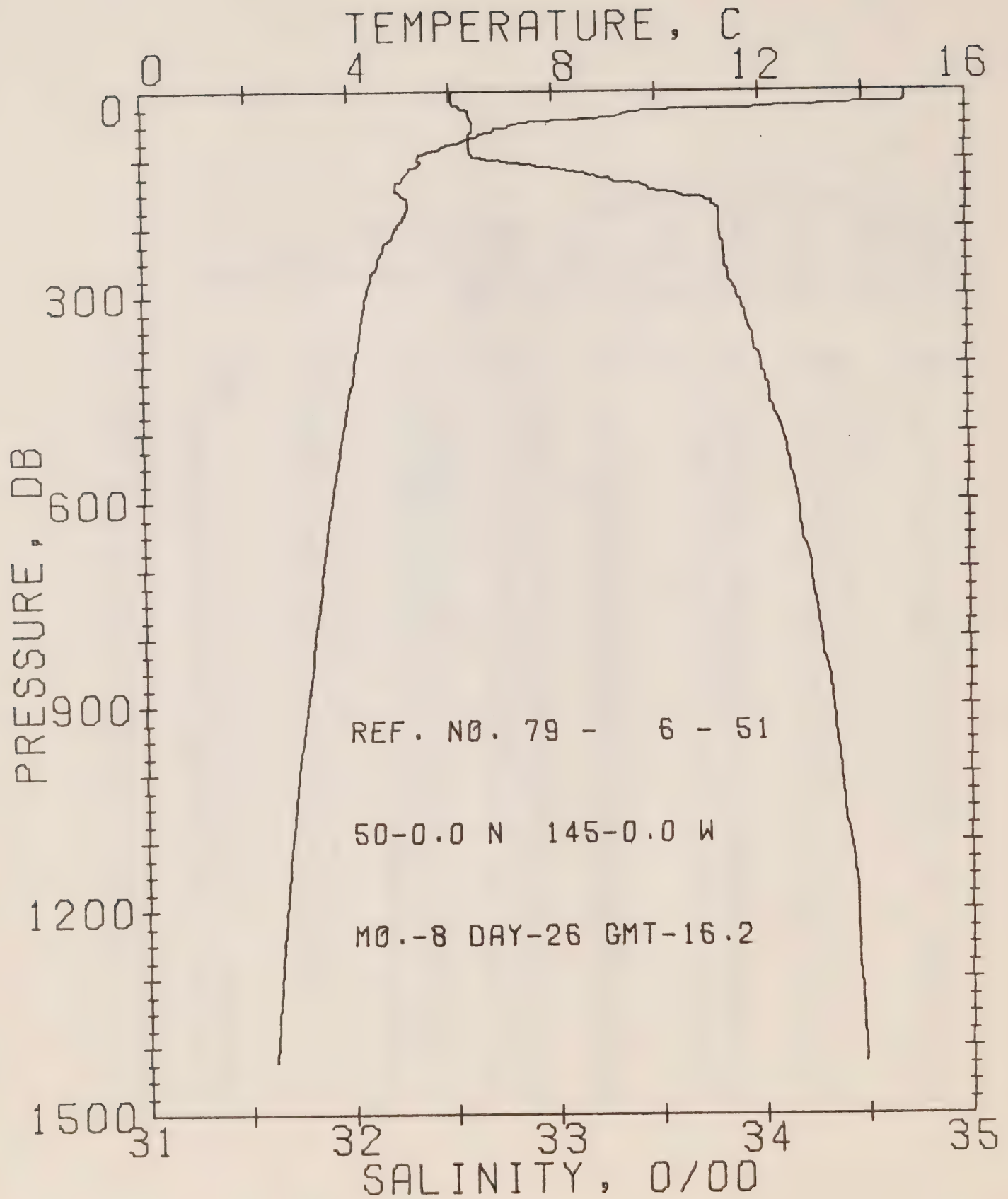
GMT 16.2

STATION P

RESULTS OF STP CAST 169 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.85	32.51	0	24.11	381.5	.00	.00	1504.
10	14.84	32.51	10	24.11	381.5	.38	.02	1504.
20	13.66	32.52	20	24.37	357.6	.76	.08	1500.
30	9.50	32.59	30	25.18	280.3	1.07	.16	1486.
40	8.53	32.60	40	25.34	265.3	1.35	.25	1482.
50	7.14	32.61	50	25.54	245.7	1.60	.37	1477.
60	6.73	32.61	60	25.60	240.5	1.85	.51	1476.
70	6.32	32.59	70	25.63	237.1	2.09	.67	1474.
80	5.86	32.59	80	25.69	231.7	2.32	.85	1473.
90	5.51	32.59	89	25.73	227.8	2.55	1.04	1471.
100	5.39	32.71	99	25.84	217.6	2.77	1.26	1471.
110	5.32	32.95	109	26.04	198.9	2.98	1.48	1471.
120	5.14	33.16	119	26.23	181.3	3.17	1.71	1471.
130	5.02	33.29	129	26.34	170.4	3.35	1.93	1471.
140	4.94	33.45	139	26.48	157.4	3.51	2.15	1471.
150	5.06	33.60	149	26.58	147.8	3.66	2.38	1472.
160	5.18	33.75	159	26.69	137.6	3.81	2.61	1473.
170	5.18	33.79	169	26.72	135.2	3.94	2.83	1473.
180	5.11	33.81	179	26.74	133.2	4.08	3.07	1473.
190	5.01	33.81	189	26.75	132.0	4.21	3.32	1473.
200	4.93	33.80	199	26.76	131.9	4.34	3.59	1472.
210	4.86	33.81	209	26.77	130.7	4.47	3.86	1472.
220	4.75	33.81	218	26.79	129.2	4.60	4.15	1472.
230	4.70	33.82	228	26.80	128.2	4.73	4.44	1472.
240	4.61	33.82	238	26.81	127.3	4.86	4.74	1472.
250	4.55	33.83	248	26.82	126.0	4.98	5.06	1472.
260	4.51	33.84	258	26.83	125.2	5.11	5.39	1472.
270	4.43	33.84	268	26.84	124.1	5.24	5.72	1472.
280	4.39	33.85	278	26.86	122.9	5.36	6.07	1472.
290	4.35	33.87	288	26.88	120.9	5.48	6.42	1472.
300	4.32	33.88	298	26.89	120.1	5.60	6.79	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 51

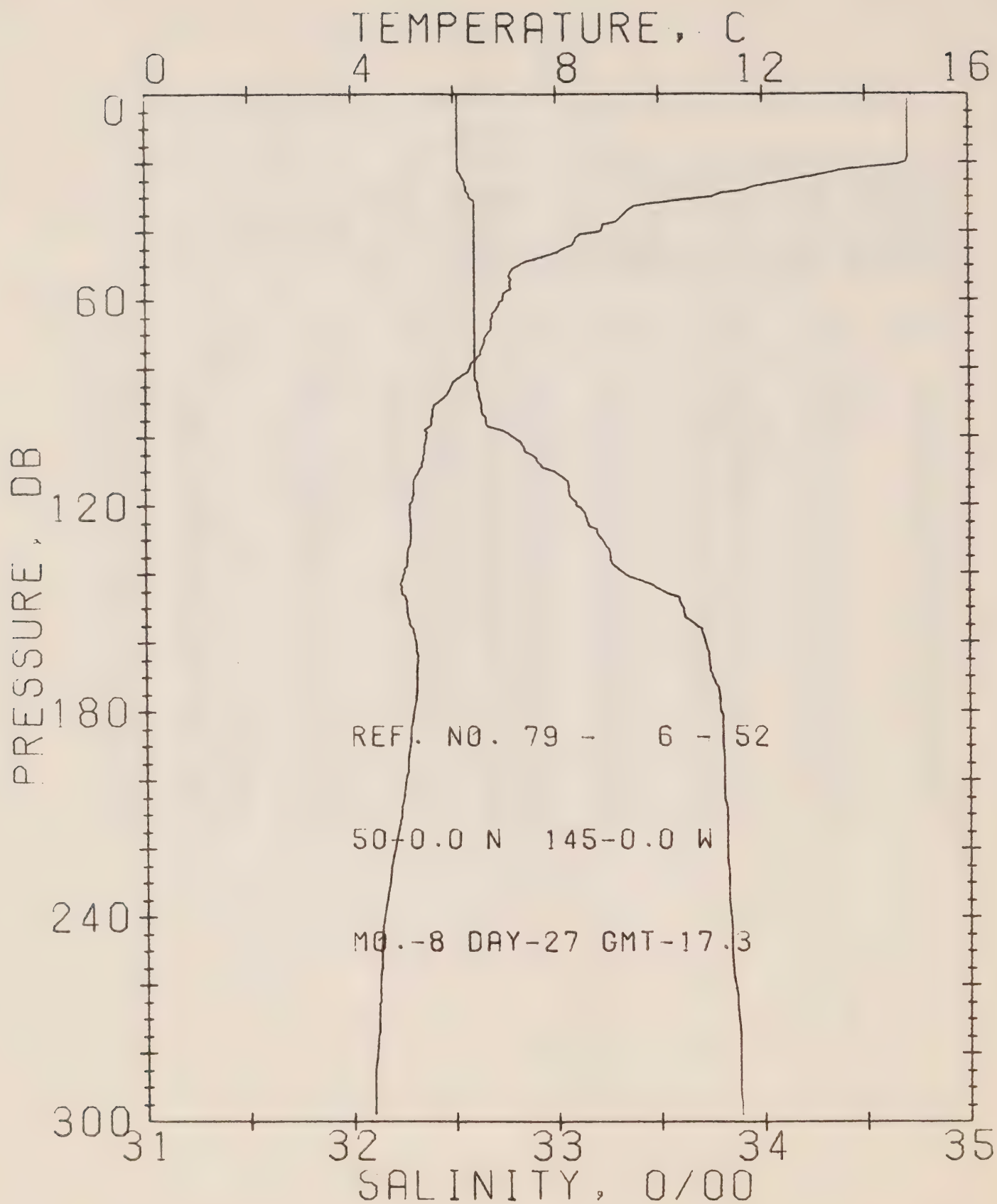
DATE 26/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.2 STATION P

RESULTS OF STP CAST 264 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.85	32.51	0	24.11	381.5	.00	.00	1504.
10	14.84	32.51	10	24.11	381.5	.38	.02	1504.
20	13.66	32.52	20	24.37	357.6	.76	.08	1500.
30	9.50	32.59	30	25.18	280.3	1.07	.16	1486.
50	7.14	32.61	50	25.54	245.7	1.60	.37	1477.
75	6.17	32.59	75	25.65	235.3	2.20	.75	1474.
100	5.39	32.71	99	25.84	217.6	2.77	1.26	1471.
125	5.08	33.22	124	26.28	176.2	3.26	1.82	1471.
150	5.06	33.60	149	26.58	147.8	3.66	2.38	1472.
175	5.13	33.80	174	26.73	134.0	4.01	2.95	1473.
200	4.93	33.80	199	26.76	131.9	4.34	3.59	1472.
225	4.69	33.82	223	26.80	128.0	4.67	4.29	1472.
250	4.55	33.83	248	26.82	126.0	4.98	5.06	1472.
300	4.32	33.88	298	26.89	120.1	5.60	6.79	1472.
400	4.08	34.00	397	27.01	109.6	6.75	10.86	1472.
500	3.85	34.10	496	27.11	100.5	7.80	15.69	1473.
600	3.62	34.17	595	27.19	93.6	8.77	21.12	1474.
800	3.26	34.28	793	27.31	83.0	10.54	33.69	1476.
1000	2.92	34.37	990	27.41	73.9	12.10	47.99	1478.
1200	2.65	34.44	1188	27.49	67.0	13.50	63.69	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 52

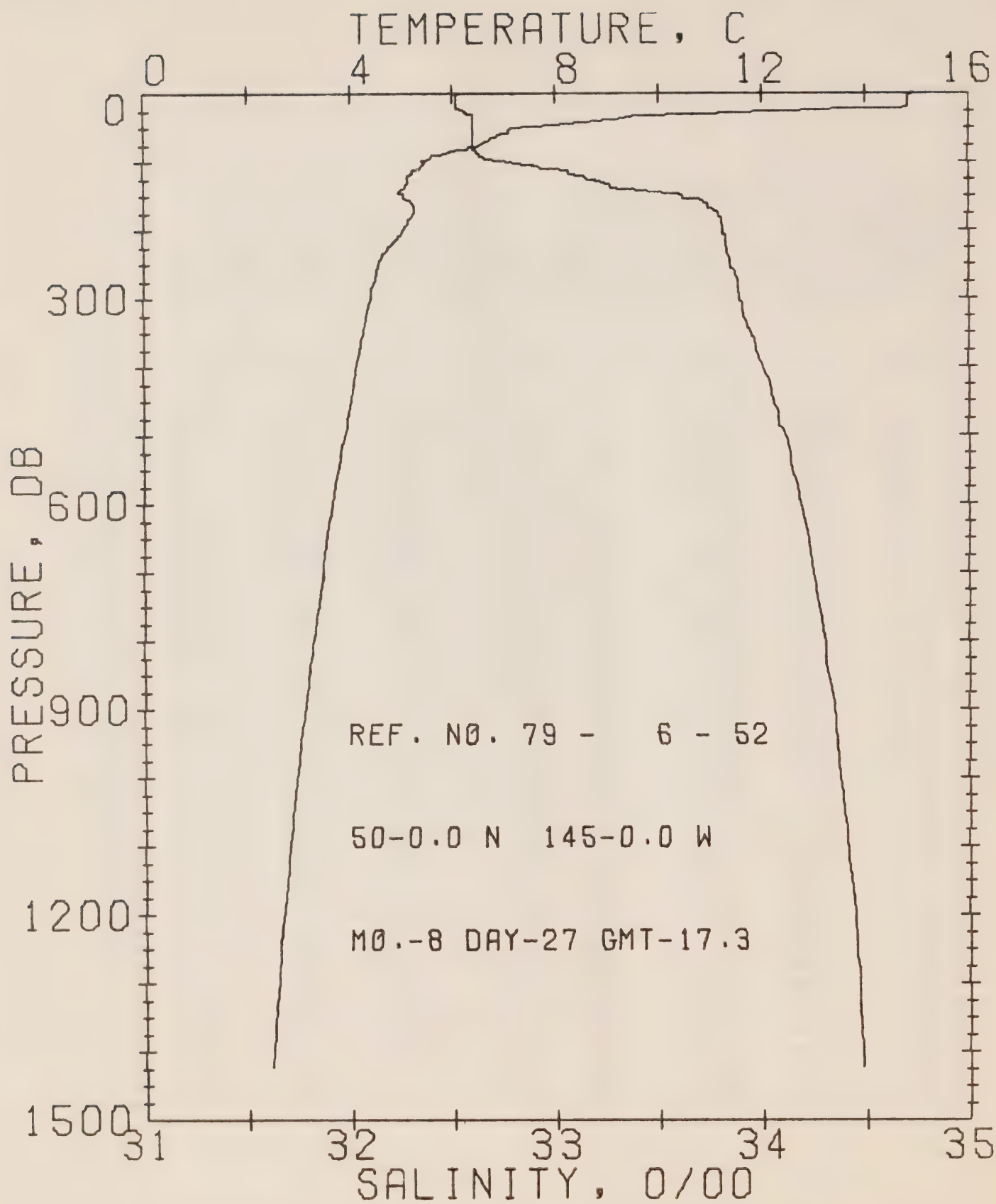
DATE 27/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.90	32.52	0	24.11	381.8	.00	.00	1504.
10	14.82	32.52	10	24.12	380.4	.38	.02	1504.
20	14.81	32.52	20	24.13	380.4	.76	.08	1504.
30	11.02	32.57	30	24.90	306.3	1.10	.16	1491.
40	8.87	32.60	40	25.28	270.3	1.38	.26	1484.
50	7.26	32.60	50	25.52	248.0	1.64	.38	1478.
60	6.95	32.60	60	25.56	244.1	1.88	.52	1477.
70	6.64	32.60	70	25.60	240.3	2.12	.68	1476.
80	6.31	32.60	80	25.64	236.3	2.36	.86	1474.
90	5.67	32.63	89	25.75	226.6	2.60	1.06	1472.
100	5.44	32.79	99	25.90	212.2	2.82	1.28	1472.
110	5.32	32.99	109	26.07	195.9	3.02	1.50	1471.
120	5.12	33.09	119	26.17	186.3	3.21	1.72	1471.
130	5.15	33.22	129	26.27	177.0	3.39	1.95	1471.
140	5.01	33.33	139	26.37	167.4	3.57	2.19	1471.
150	5.08	33.61	149	26.59	147.3	3.72	2.42	1472.
160	5.24	33.71	159	26.65	141.4	3.87	2.64	1473.
170	5.25	33.75	169	26.68	138.6	4.01	2.88	1473.
180	5.19	33.80	179	26.72	135.0	4.14	3.12	1473.
190	5.10	33.80	189	26.74	133.6	4.28	3.38	1473.
200	5.01	33.81	199	26.75	132.1	4.41	3.64	1473.
210	4.93	33.82	209	26.77	130.6	4.54	3.92	1473.
220	4.80	33.82	218	26.79	129.2	4.67	4.20	1472.
230	4.69	33.83	228	26.81	127.4	4.80	4.49	1472.
240	4.59	33.84	238	26.82	125.9	4.93	4.80	1472.
250	4.54	33.84	248	26.83	125.1	5.05	5.11	1472.
260	4.52	33.86	258	26.85	123.5	5.18	5.43	1472.
270	4.48	33.87	268	26.86	122.1	5.30	5.77	1472.
280	4.44	33.88	278	26.87	121.4	5.42	6.11	1472.
290	4.41	33.88	288	26.88	121.1	5.54	6.46	1472.
300	4.39	33.89	298	26.89	120.2	5.66	6.82	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 52

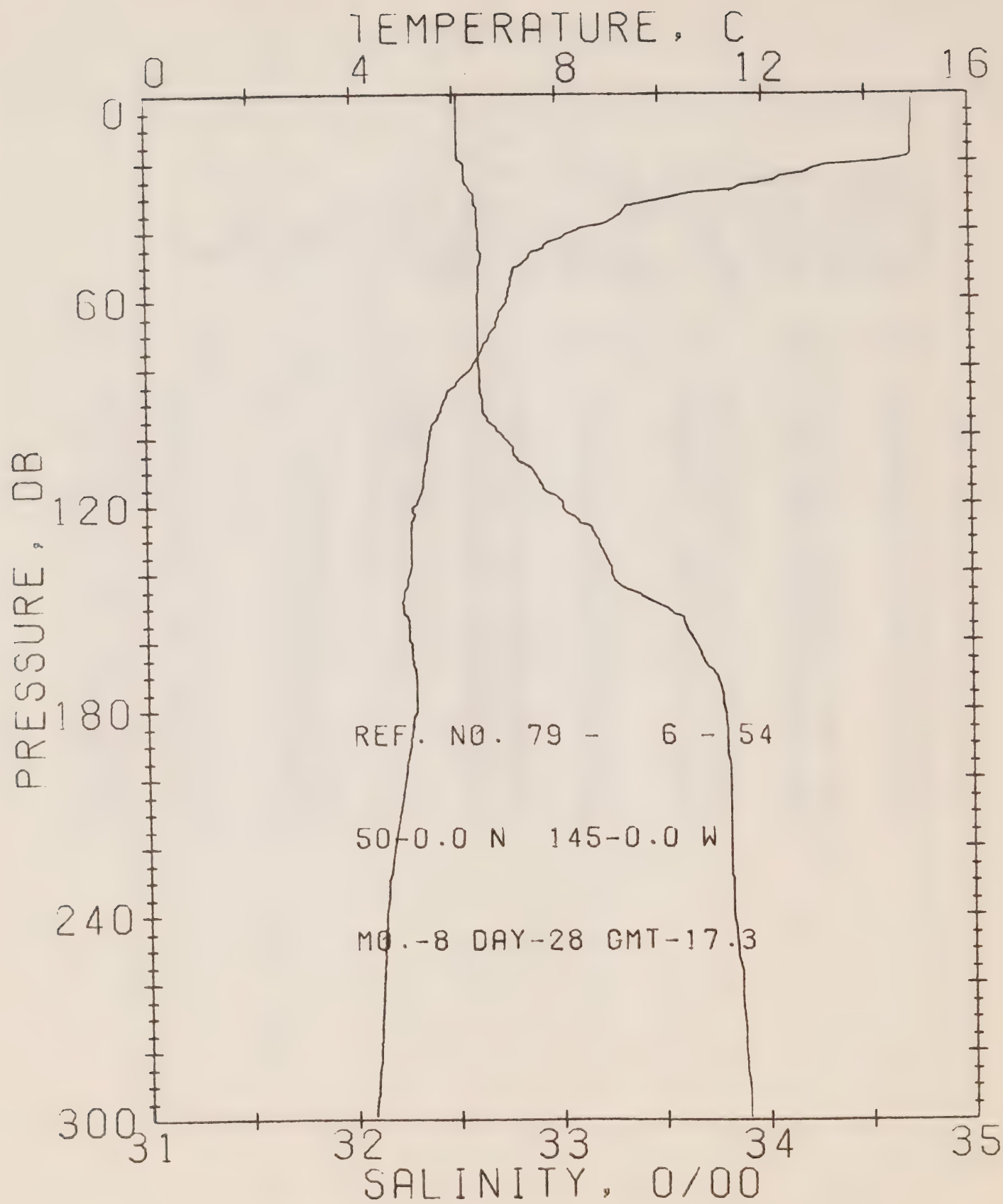
DATE 27/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 258 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.90	32.52	0	24.11	381.8	.00	.00	1504.
10	14.82	32.52	10	24.12	380.4	.38	.02	1504.
20	14.81	32.52	20	24.13	380.4	.76	.08	1504.
30	11.02	32.57	30	24.90	306.3	1.10	.16	1491.
50	7.26	32.60	50	25.52	248.0	1.64	.38	1478.
75	6.52	32.60	75	25.62	238.9	2.24	.77	1475.
100	5.44	32.79	99	25.90	212.2	2.82	1.28	1472.
125	5.14	33.15	124	26.22	182.1	3.30	1.83	1471.
150	5.08	33.61	149	26.59	147.3	3.72	2.42	1472.
175	5.24	33.78	174	26.71	136.2	4.07	3.00	1473.
200	5.01	33.81	199	26.75	132.1	4.41	3.64	1473.
225	4.75	33.82	223	26.80	128.3	4.74	4.35	1472.
250	4.54	33.84	248	26.83	125.1	5.05	5.11	1472.
300	4.39	33.89	298	26.89	120.2	5.66	6.82	1472.
400	4.10	34.00	397	27.00	109.9	6.81	10.92	1472.
500	3.88	34.11	496	27.11	100.3	7.87	15.75	1473.
600	3.62	34.18	595	27.19	93.2	8.83	21.15	1474.
800	3.24	34.30	793	27.32	81.5	10.57	33.54	1476.
1000	2.93	34.37	990	27.41	74.1	12.13	47.74	1478.
1200	2.66	34.44	1188	27.49	67.0	13.53	63.51	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 54

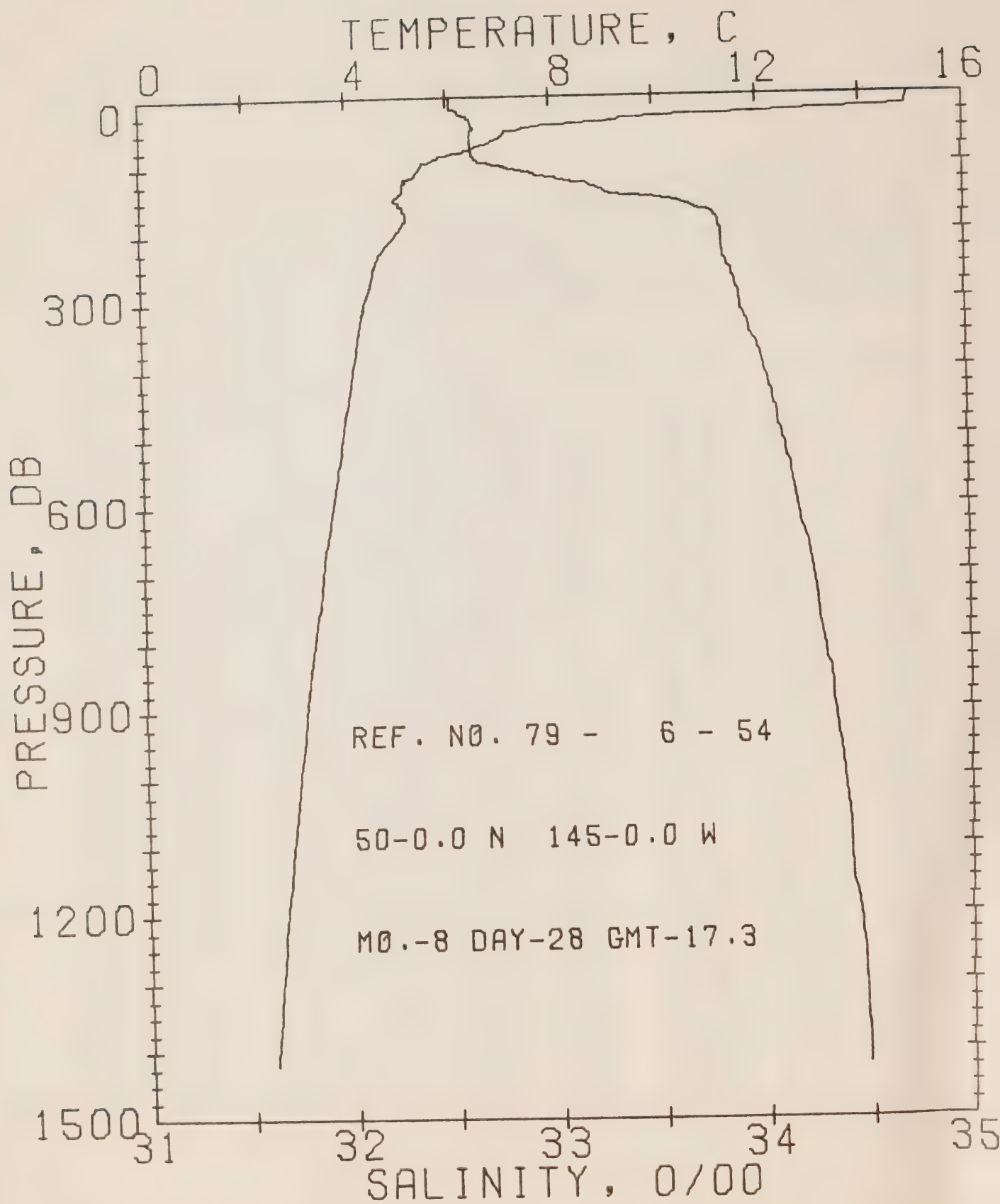
DATE 28/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 179 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.97	32.52	0	24.09	383.2	.00	.00	1504.
10	14.89	32.52	10	24.11	381.8	.38	.02	1504.
20	14.25	32.55	20	24.27	367.0	.76	.08	1502.
30	10.37	32.60	30	25.04	293.4	1.09	.16	1489.
40	8.37	32.62	40	25.38	261.5	1.37	.26	1482.
50	7.29	32.62	50	25.53	246.9	1.62	.37	1478.
60	7.02	32.61	60	25.56	244.2	1.86	.51	1477.
70	6.67	32.61	70	25.61	239.9	2.10	.67	1476.
80	6.31	32.62	80	25.66	234.8	2.34	.85	1474.
90	5.77	32.63	89	25.73	227.8	2.57	1.05	1472.
100	5.49	32.73	99	25.85	217.2	2.80	1.27	1472.
110	5.39	32.86	109	25.98	205.0	3.01	1.50	1472.
120	5.23	33.02	119	26.11	192.8	3.21	1.73	1471.
130	5.13	33.19	129	26.25	179.1	3.39	1.97	1471.
140	5.09	33.25	139	26.30	174.2	3.57	2.21	1471.
150	4.96	33.51	149	26.52	153.4	3.74	2.45	1471.
160	5.08	33.65	159	26.62	144.4	3.88	2.69	1472.
170	5.19	33.76	169	26.69	137.5	4.02	2.92	1473.
180	5.19	33.80	179	26.72	135.0	4.16	3.17	1473.
190	5.07	33.81	189	26.75	132.7	4.29	3.42	1473.
200	4.96	33.82	199	26.77	130.8	4.43	3.68	1473.
210	4.86	33.82	209	26.78	129.8	4.56	3.95	1472.
220	4.74	33.82	218	26.79	128.5	4.69	4.24	1472.
230	4.61	33.83	228	26.81	126.5	4.81	4.53	1472.
240	4.57	33.83	238	26.82	126.1	4.94	4.83	1472.
250	4.52	33.85	248	26.84	124.2	5.06	5.14	1472.
260	4.50	33.87	258	26.86	122.6	5.19	5.46	1472.
270	4.47	33.88	268	26.87	121.8	5.31	5.80	1472.
280	4.43	33.88	278	26.88	121.0	5.43	6.14	1472.
290	4.38	33.90	288	26.89	119.4	5.55	6.48	1472.
300	4.32	33.90	298	26.90	118.6	5.67	6.84	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 54

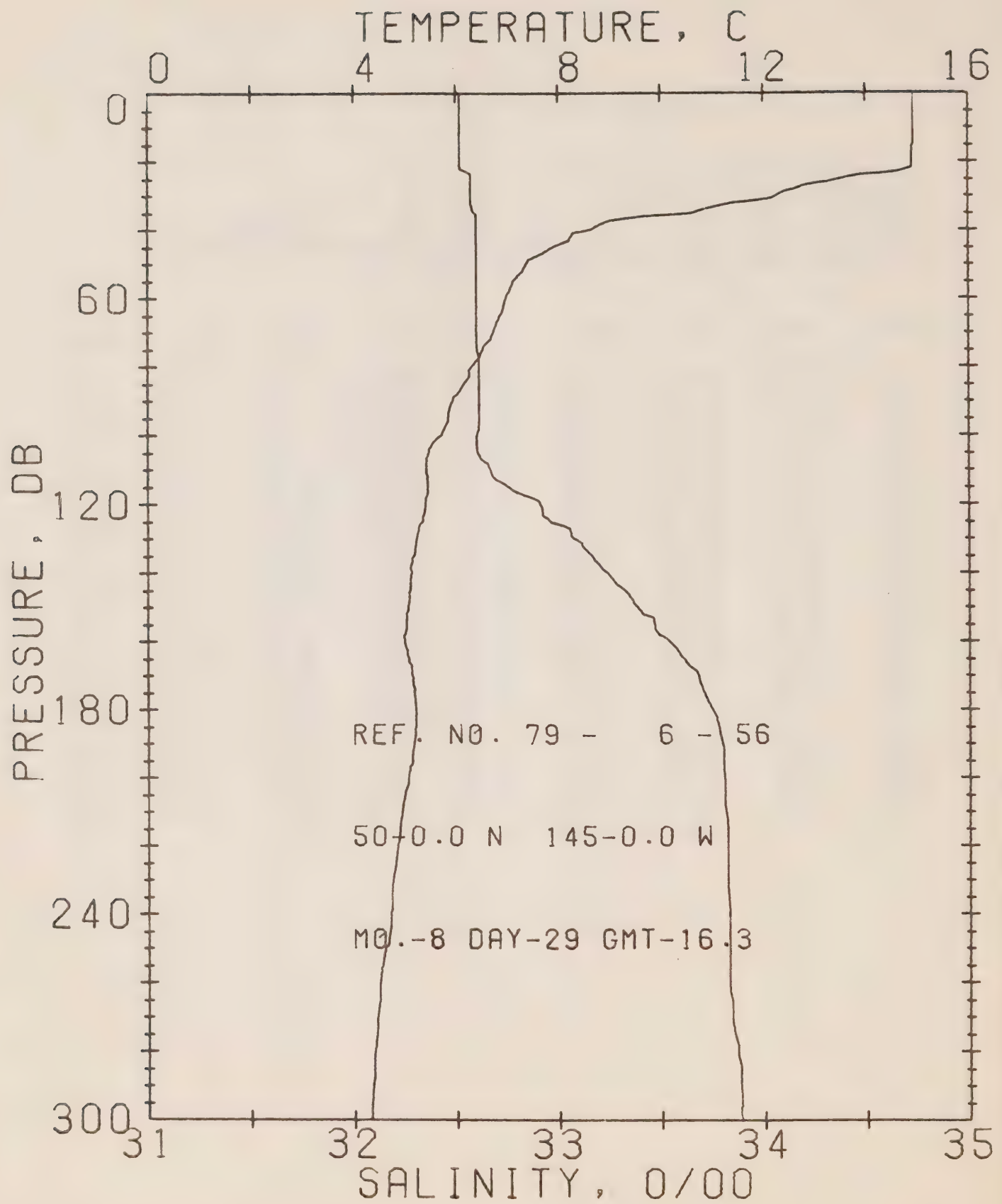
DATE 28/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 264 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.97	32.52	0	24.09	383.2	.00	.00	1504.
10	14.89	32.52	10	24.11	381.8	.38	.02	1504.
20	14.25	32.55	20	24.27	367.0	.76	.08	1502.
30	10.37	32.60	30	25.04	293.4	1.09	.16	1489.
50	7.29	32.62	50	25.53	246.9	1.62	.37	1478.
75	6.51	32.61	75	25.63	238.0	2.22	.76	1475.
100	5.49	32.73	99	25.85	217.2	2.80	1.27	1472.
125	5.13	33.10	124	26.18	185.8	3.30	1.85	1471.
150	4.96	33.51	149	26.52	153.4	3.74	2.45	1471.
175	5.21	33.79	174	26.72	135.6	4.09	3.05	1473.
200	4.96	33.82	199	26.77	130.8	4.43	3.68	1473.
225	4.68	33.82	223	26.80	128.0	4.75	4.38	1472.
250	4.52	33.85	248	26.84	124.2	5.06	5.14	1472.
300	4.32	33.90	298	26.90	118.6	5.67	6.84	1472.
400	4.08	34.01	397	27.01	108.9	6.81	10.88	1472.
500	3.87	34.10	496	27.11	100.7	7.85	15.68	1473.
600	3.65	34.17	595	27.18	94.1	8.83	21.12	1474.
800	3.25	34.29	793	27.32	82.2	10.58	33.60	1476.
1000	2.92	34.38	990	27.42	73.5	12.13	47.81	1478.
1200	2.64	34.44	1188	27.49	66.6	13.54	63.60	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 56

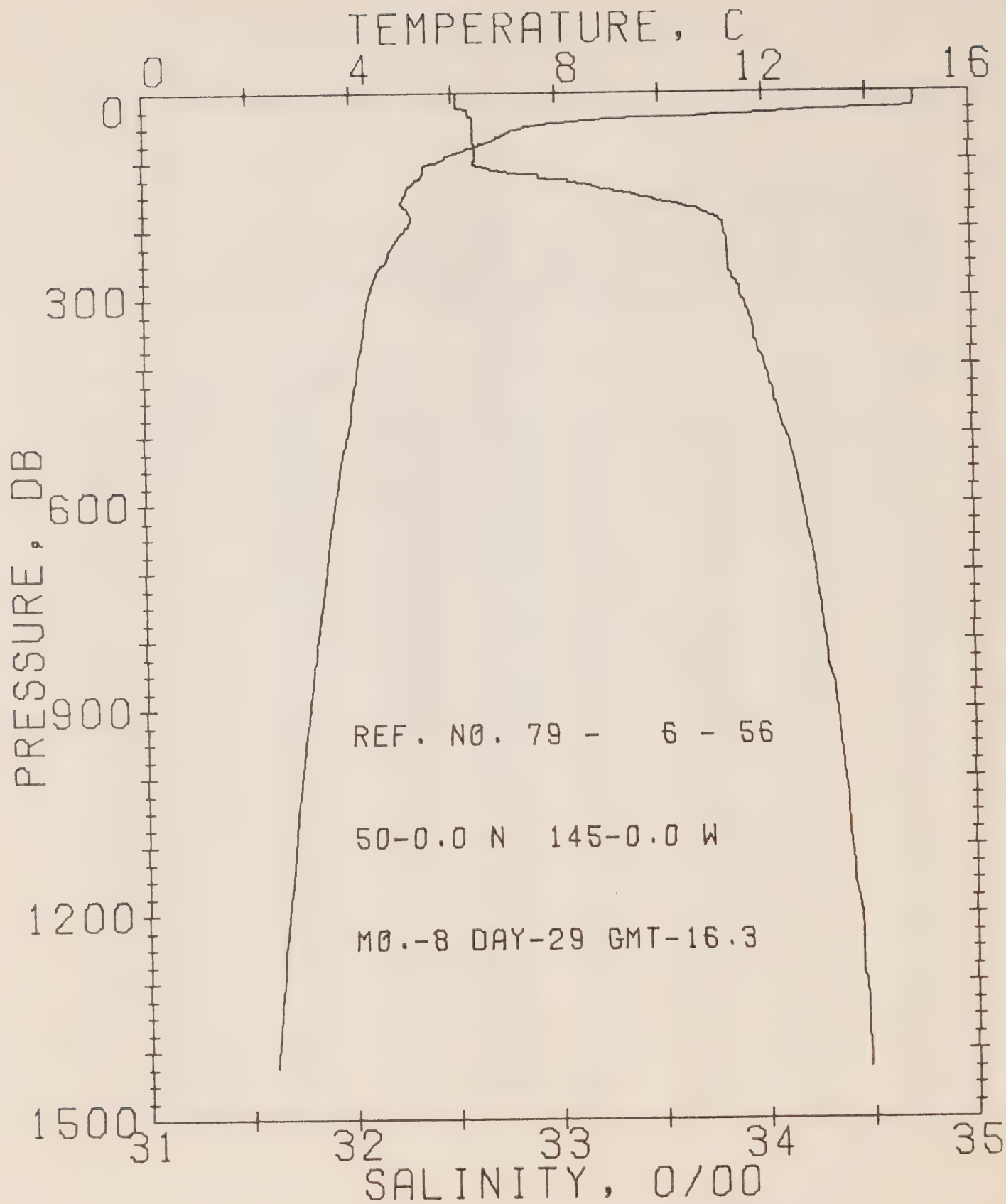
DATE 29/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.3 STATION P

RESULTS OF STP CAST 167 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.93	32.52	0	24.10	382.4	.00	.00	1504.
10	14.94	32.52	10	24.10	382.8	.38	.02	1504.
20	14.92	32.52	20	24.10	382.7	.77	.08	1504.
30	12.28	32.57	30	24.67	328.4	1.12	.17	1496.
40	8.64	32.60	40	25.32	266.9	1.41	.27	1483.
50	7.38	32.60	50	25.50	249.5	1.67	.39	1478.
60	6.97	32.60	60	25.56	244.3	1.92	.53	1477.
70	6.71	32.60	70	25.59	241.2	2.16	.69	1476.
80	6.29	32.61	80	25.65	235.4	2.40	.87	1474.
90	5.92	32.61	89	25.70	231.0	2.63	1.07	1473.
100	5.71	32.60	99	25.72	229.5	2.86	1.30	1472.
110	5.41	32.66	109	25.80	221.4	3.09	1.54	1471.
120	5.38	32.91	119	26.00	202.8	3.30	1.79	1472.
130	5.22	33.09	129	26.16	187.9	3.50	2.04	1471.
140	5.12	33.24	139	26.29	175.3	3.68	2.29	1471.
150	5.04	33.39	149	26.42	163.3	3.85	2.54	1471.
160	4.98	33.54	159	26.54	151.7	4.01	2.79	1472.
170	5.13	33.68	169	26.64	142.8	4.15	3.03	1473.
180	5.20	33.75	179	26.68	138.5	4.30	3.29	1473.
190	5.15	33.80	189	26.73	134.6	4.43	3.54	1473.
200	5.06	33.81	199	26.75	132.8	4.57	3.81	1473.
210	4.92	33.81	209	26.77	131.0	4.70	4.08	1473.
220	4.82	33.82	218	26.78	129.4	4.83	4.37	1472.
230	4.74	33.82	228	26.79	128.6	4.96	4.67	1472.
240	4.70	33.83	238	26.80	127.5	5.08	4.97	1472.
250	4.59	33.83	248	26.82	126.4	5.21	5.29	1472.
260	4.50	33.83	258	26.83	125.5	5.34	5.62	1472.
270	4.45	33.84	268	26.84	124.3	5.46	5.96	1472.
280	4.38	33.87	278	26.87	121.5	5.59	6.30	1471.
290	4.35	33.88	288	26.88	120.5	5.71	6.65	1472.
300	4.31	33.89	298	26.89	119.4	5.83	7.01	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 56

DATE 29/ 8/79

POSITION 50- .0N, 145- .0W

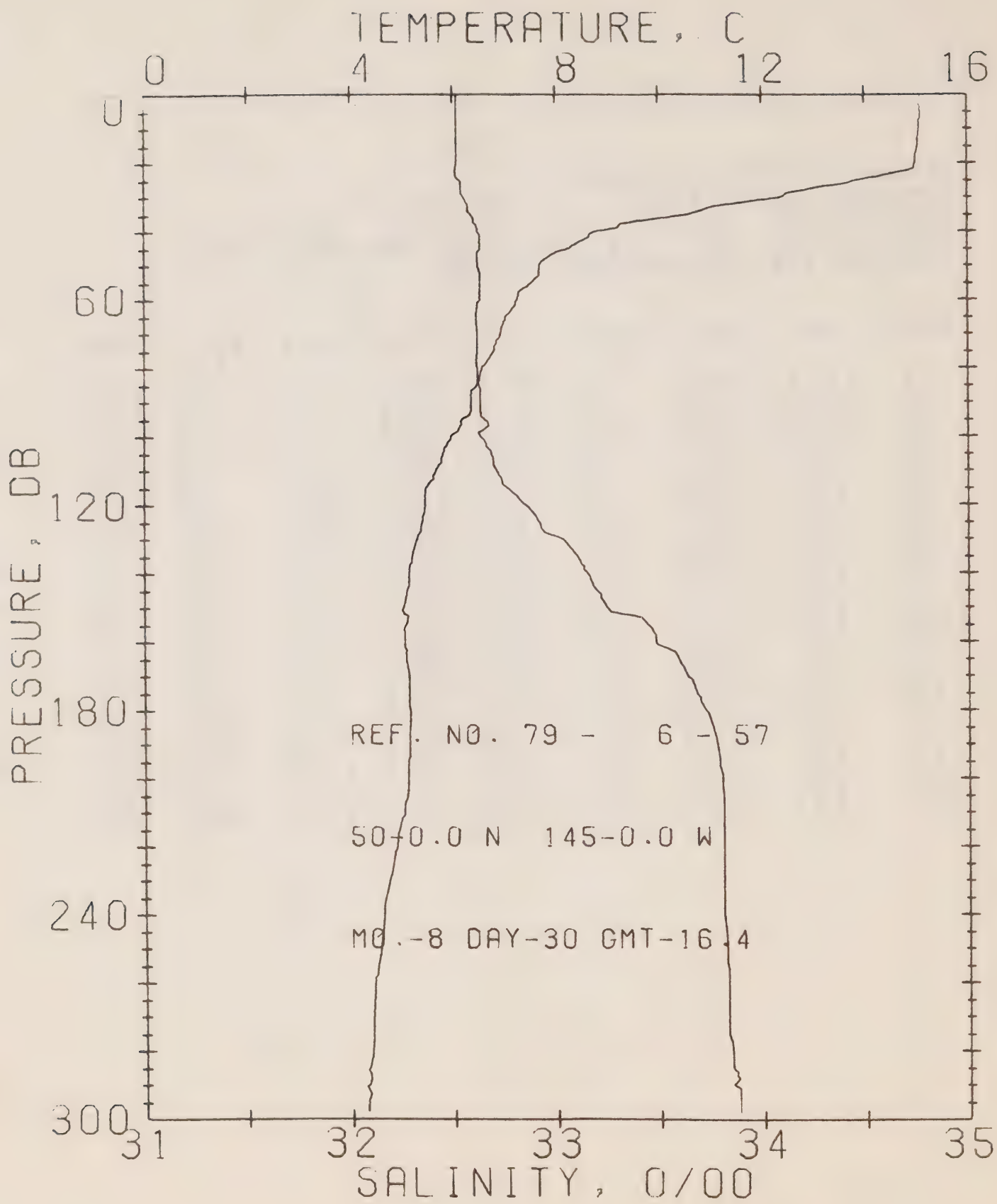
GMT 16.3

STATION P

RESULTS OF STP CAST 248 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.93	32.52	0	24.10	382.4	.00	.00	1504.
10	14.94	32.52	10	24.10	382.8	.38	.02	1504.
20	14.92	32.52	20	24.10	382.7	.77	.08	1504.
30	12.28	32.57	30	24.67	328.4	1.12	.17	1496.
50	7.38	32.60	50	25.50	249.5	1.67	.39	1478.
75	6.50	32.60	75	25.62	238.4	2.28	.78	1475.
100	5.71	32.60	99	25.72	229.5	2.86	1.30	1472.
125	5.33	32.96	124	26.05	198.5	3.40	1.91	1472.
150	5.04	33.39	149	26.42	163.3	3.85	2.54	1471.
175	5.17	33.70	174	26.65	141.4	4.23	3.16	1473.
200	5.06	33.81	199	26.75	132.8	4.57	3.81	1473.
225	4.79	33.82	223	26.79	129.2	4.89	4.52	1472.
250	4.59	33.83	248	26.82	126.4	5.21	5.29	1472.
300	4.31	33.89	298	26.89	119.4	5.83	7.01	1472.
400	4.09	34.00	397	27.00	110.0	6.97	11.09	1472.
500	3.88	34.10	496	27.11	100.8	8.03	15.94	1473.
600	3.63	34.17	595	27.19	93.7	9.00	21.37	1474.
800	3.27	34.28	793	27.31	83.1	10.76	33.90	1476.
1000	2.95	34.37	990	27.41	74.6	12.33	48.27	1478.
1200	2.67	34.44	1188	27.49	67.3	13.76	64.21	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 57

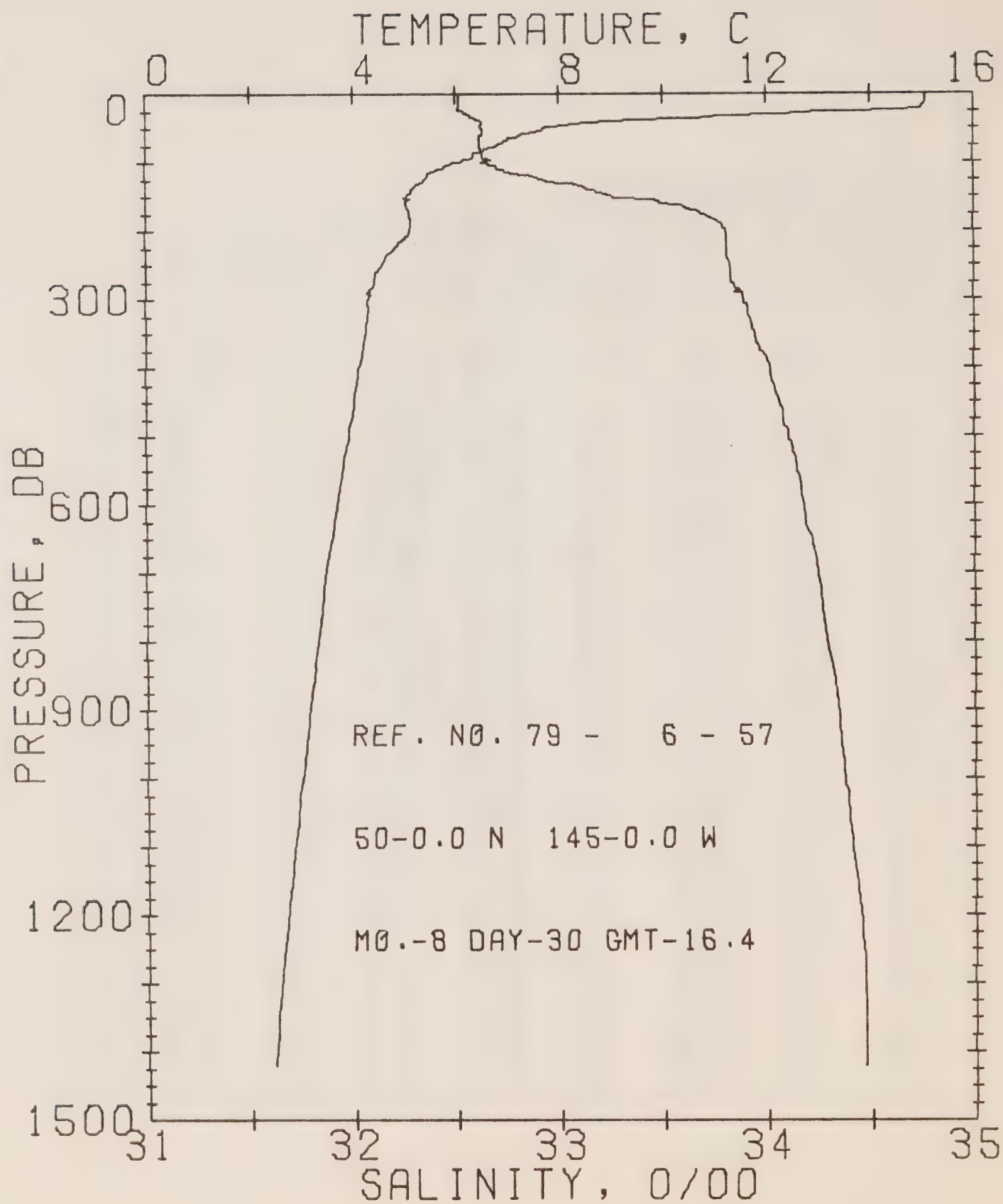
DATE 30/ 8/79

POSITION 50- .0N, 145- .0W GMT 16.4 STATION P

RESULTS OF STP CAST 185 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.08	32.52	0	24.07	385.4	.00	.00	1505.
10	15.07	32.52	10	24.07	385.4	.39	.02	1505.
20	14.98	32.52	20	24.09	383.9	.77	.08	1505.
30	12.39	32.55	30	24.64	331.8	1.13	.17	1496.
40	8.80	32.62	40	25.31	267.8	1.43	.28	1484.
50	7.69	32.62	50	25.47	252.2	1.69	.39	1479.
60	7.26	32.63	60	25.54	245.9	1.94	.53	1478.
70	6.92	32.62	70	25.58	242.3	2.18	.70	1477.
80	6.55	32.62	80	25.63	237.8	2.42	.88	1475.
90	6.36	32.63	89	25.66	234.8	2.66	1.08	1475.
100	5.94	32.63	99	25.71	229.9	2.89	1.31	1473.
110	5.65	32.71	109	25.81	220.6	3.11	1.55	1472.
120	5.44	32.85	119	25.95	207.9	3.33	1.80	1472.
130	5.27	33.03	129	26.11	192.6	3.53	2.06	1472.
140	5.13	33.15	139	26.22	182.2	3.72	2.32	1471.
150	5.00	33.24	149	26.31	173.8	3.90	2.58	1471.
160	5.04	33.48	159	26.49	156.7	4.06	2.83	1472.
170	5.11	33.63	169	26.60	146.3	4.21	3.09	1472.
180	5.13	33.72	179	26.67	140.0	4.35	3.34	1473.
190	5.12	33.78	189	26.72	135.6	4.49	3.60	1473.
200	5.09	33.80	199	26.74	133.7	4.62	3.87	1473.
210	5.01	33.81	209	26.75	132.2	4.76	4.15	1473.
220	4.86	33.81	219	26.77	130.6	4.89	4.43	1472.
230	4.74	33.81	228	26.78	129.4	5.02	4.73	1472.
240	4.60	33.81	238	26.80	127.9	5.15	5.04	1472.
250	4.56	33.82	248	26.81	126.8	5.27	5.36	1472.
260	4.44	33.83	258	26.83	124.9	5.40	5.68	1471.
270	4.40	33.83	268	26.84	124.6	5.52	6.02	1471.
280	4.38	33.85	278	26.85	123.1	5.65	6.37	1471.
290	4.32	33.85	288	26.86	122.4	5.77	6.72	1471.
300	4.29	33.89	298	26.89	119.4	5.89	7.08	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 57

DATE 30/ 8/79

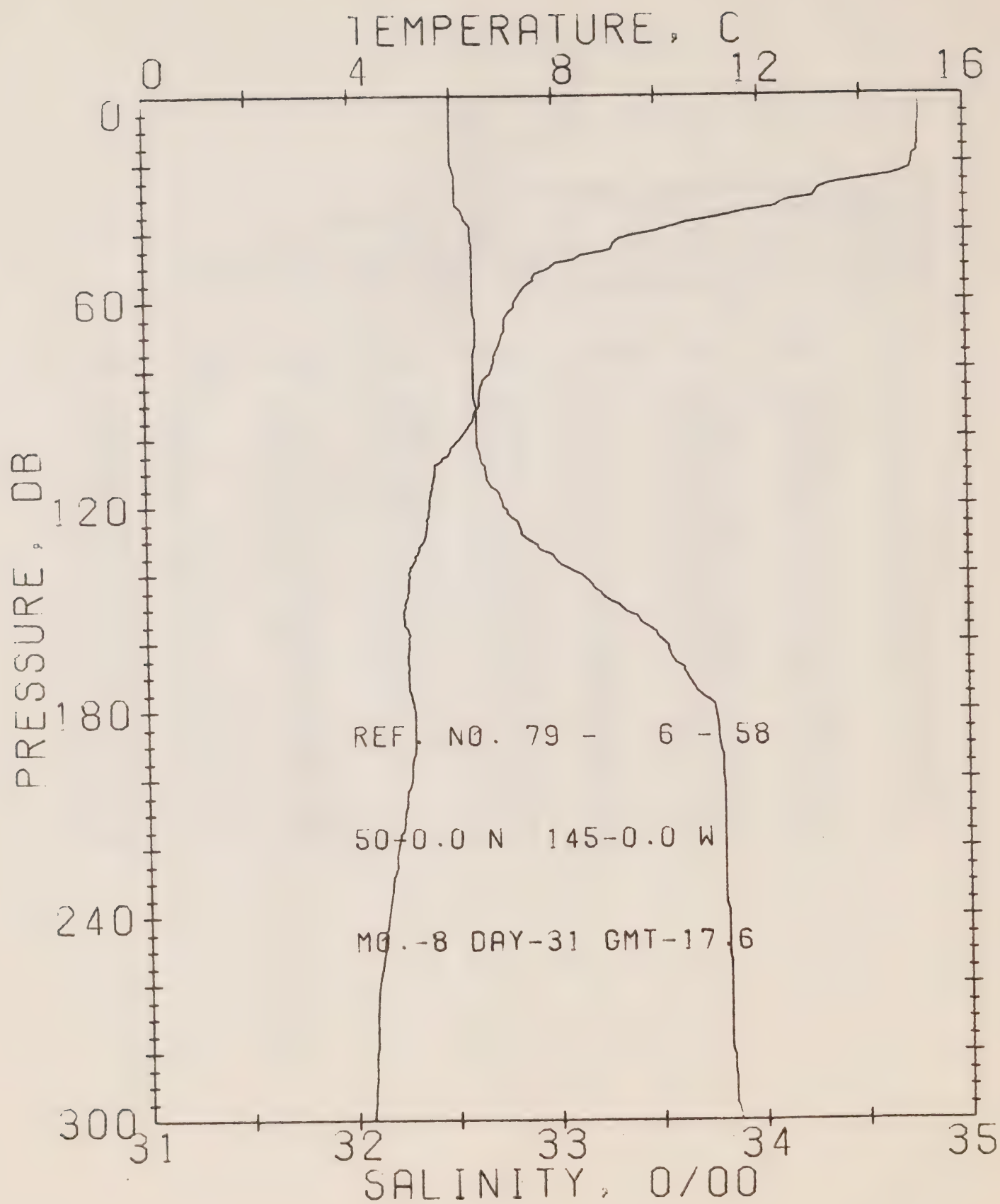
POSITION 50- .0N, 145- .0W GMT 16.4

STATION P

RESULTS OF STP CAST 287 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.08	32.52	0	24.07	385.4	.00	.00	1505.
10	15.07	32.52	10	24.07	385.4	.39	.02	1505.
20	14.98	32.52	20	24.09	383.9	.77	.08	1505.
30	12.39	32.55	30	24.64	331.8	1.13	.17	1496.
50	7.69	32.62	50	25.47	252.2	1.69	.39	1479.
75	6.80	32.62	75	25.60	240.9	2.30	.78	1476.
100	5.94	32.63	99	25.71	229.9	2.89	1.31	1473.
125	5.38	32.92	124	26.01	202.0	3.43	1.93	1472.
150	5.00	33.24	149	26.31	173.8	3.90	2.58	1471.
175	5.12	33.68	174	26.64	142.8	4.28	3.21	1473.
200	5.09	33.80	199	26.74	133.7	4.62	3.87	1473.
225	4.80	33.81	223	26.78	130.0	4.95	4.58	1472.
250	4.56	33.82	248	26.81	126.8	5.27	5.36	1472.
300	4.29	33.89	298	26.89	119.4	5.89	7.08	1471.
400	4.09	34.01	397	27.01	108.9	7.04	11.17	1472.
500	3.90	34.10	496	27.10	101.0	8.09	15.99	1473.
600	3.66	34.17	595	27.18	94.2	9.06	21.43	1474.
800	3.27	34.28	793	27.31	82.9	10.82	33.94	1476.
1000	2.96	34.37	990	27.41	74.6	12.39	48.27	1478.
1200	2.68	34.44	1188	27.49	66.9	13.80	64.12	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 58

DATE 31/ 8/79

POSITION 50- .0N, 145- .0W

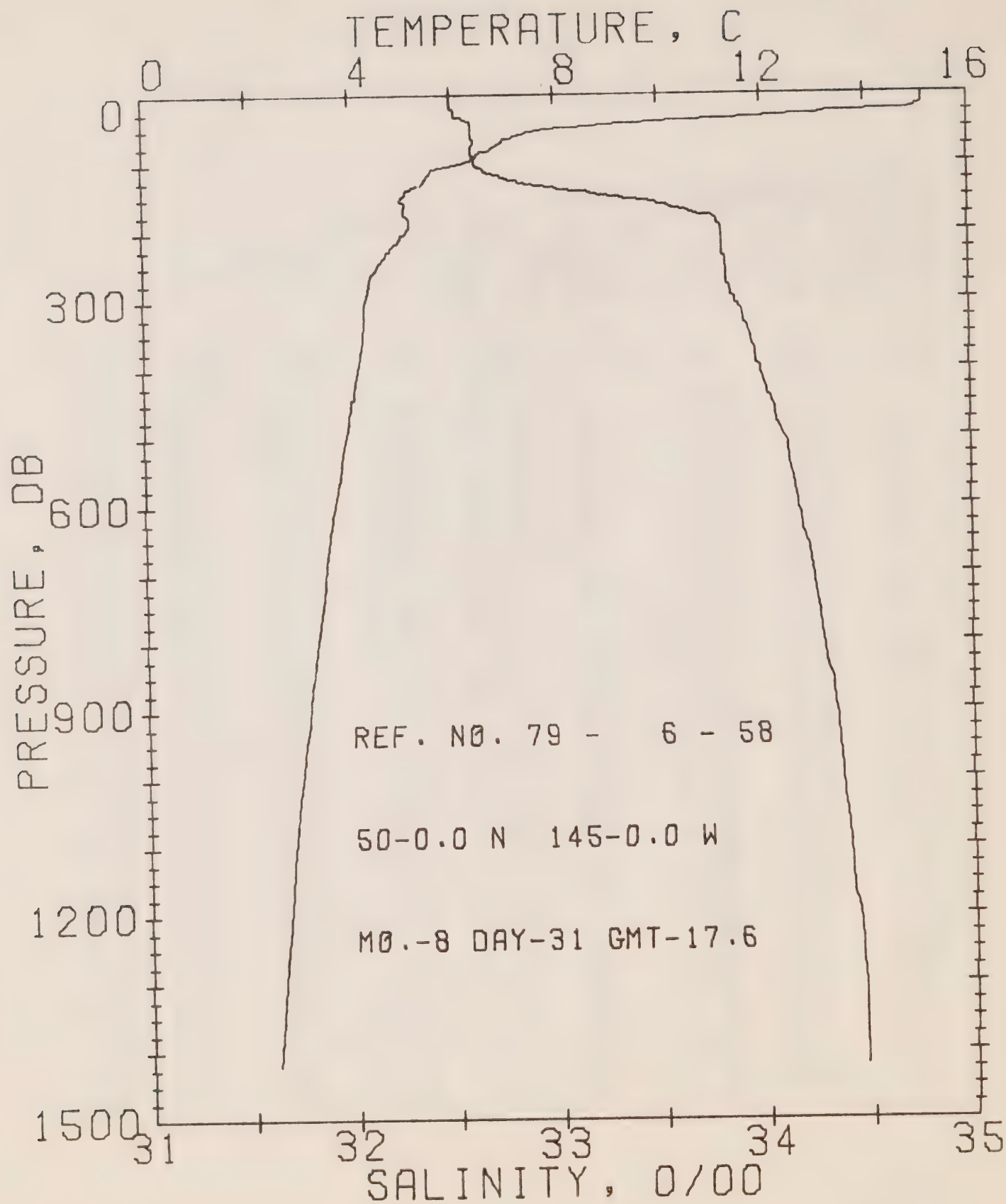
GMT 17.6

STATION P

RESULTS OF STP CAST 177 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.14	32.50	0	24.04	388.1	.00	.00	1505.
10	15.11	32.50	10	24.05	387.8	.39	.02	1505.
20	14.99	32.50	20	24.07	385.6	.78	.08	1505.
30	13.07	32.52	30	24.48	346.6	1.14	.17	1499.
40	9.92	32.59	40	25.11	287.1	1.46	.28	1488.
50	7.96	32.60	50	25.42	257.4	1.73	.41	1480.
60	7.22	32.60	60	25.52	247.6	1.98	.55	1478.
70	6.97	32.61	70	25.57	243.7	2.22	.71	1477.
80	6.74	32.60	80	25.59	241.7	2.47	.90	1476.
90	6.50	32.61	89	25.63	238.3	2.71	1.10	1475.
100	6.13	32.61	99	25.67	233.7	2.94	1.33	1474.
110	5.63	32.65	109	25.77	224.5	3.17	1.58	1472.
120	5.53	32.74	119	25.85	217.1	3.39	1.84	1472.
130	5.41	32.87	129	25.97	206.1	3.60	2.11	1472.
140	5.09	33.12	139	26.20	184.0	3.80	2.37	1471.
150	5.00	33.32	149	26.37	168.1	3.98	2.64	1471.
160	5.09	33.52	159	26.52	154.2	4.14	2.89	1472.
170	5.08	33.63	169	26.60	146.0	4.29	3.14	1472.
180	5.19	33.77	179	26.70	136.9	4.43	3.39	1473.
190	5.20	33.79	189	26.71	135.8	4.56	3.65	1473.
200	5.10	33.80	199	26.74	133.6	4.70	3.92	1473.
210	4.96	33.81	209	26.76	131.6	4.83	4.20	1473.
220	4.83	33.81	219	26.78	130.2	4.96	4.48	1472.
230	4.72	33.81	228	26.79	129.2	5.09	4.78	1472.
240	4.61	33.82	238	26.81	127.3	5.22	5.09	1472.
250	4.53	33.82	248	26.82	126.6	5.35	5.41	1472.
260	4.41	33.83	258	26.84	124.6	5.47	5.73	1471.
270	4.37	33.83	268	26.84	124.2	5.60	6.07	1471.
280	4.36	33.84	278	26.85	123.9	5.72	6.42	1471.
290	4.33	33.85	288	26.86	122.5	5.84	6.77	1471.
300	4.29	33.87	298	26.88	120.7	5.97	7.14	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 58

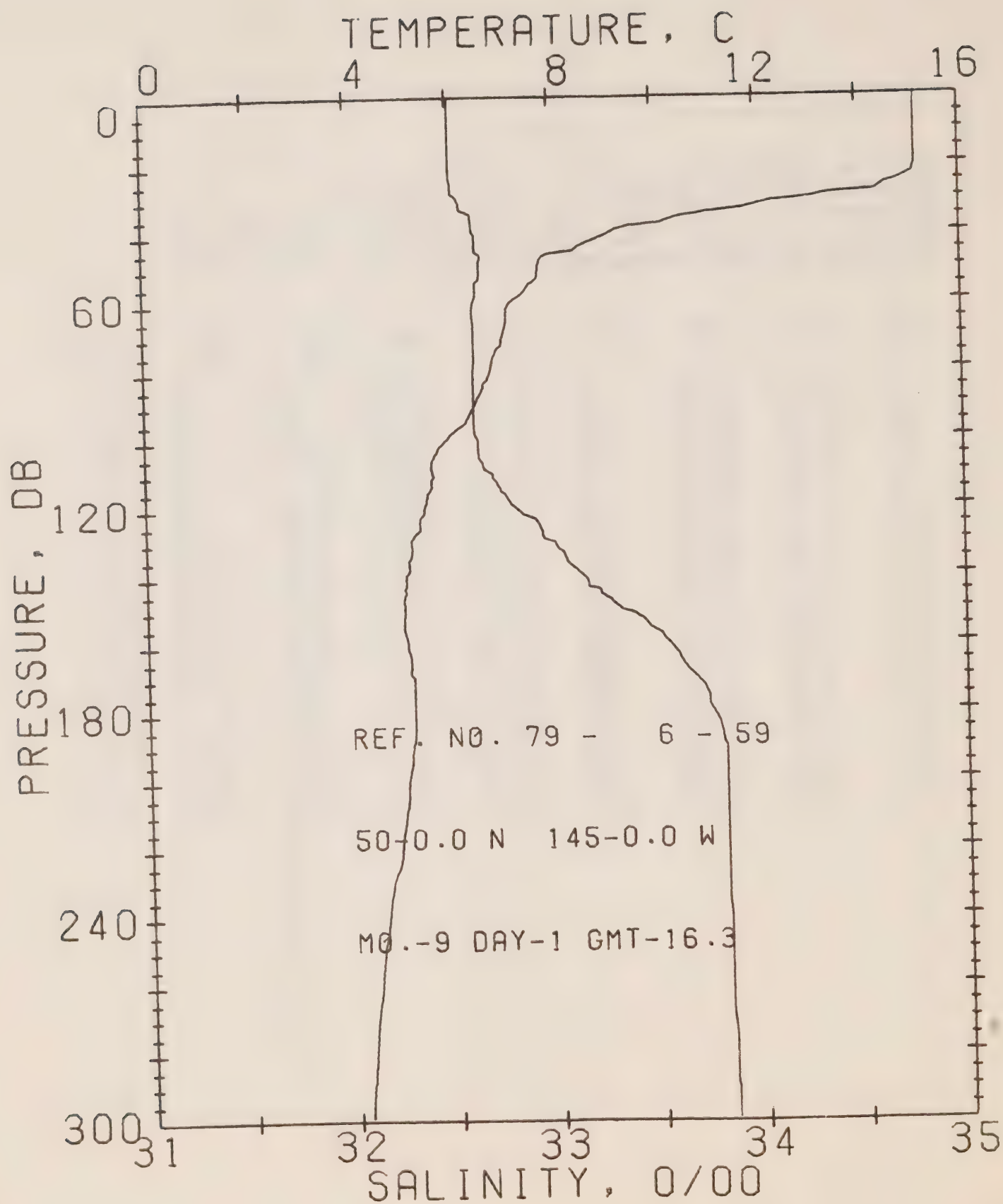
DATE 31/ 8/79

POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 262 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.14	32.50	0	24.04	388.1	.00	.00	1505.
10	15.11	32.50	10	24.05	387.8	.39	.02	1505.
20	14.99	32.50	20	24.07	385.6	.78	.08	1505.
30	13.07	32.52	30	24.48	346.6	1.14	.17	1499.
50	7.96	32.60	50	25.42	257.4	1.73	.41	1480.
75	6.84	32.60	75	25.58	242.9	2.35	.80	1476.
100	6.13	32.61	99	25.67	233.7	2.94	1.33	1474.
125	5.46	32.82	124	25.92	210.6	3.50	1.97	1472.
150	5.00	33.32	149	26.37	168.1	3.98	2.64	1471.
175	5.12	33.69	174	26.65	142.0	4.36	3.27	1473.
200	5.10	33.80	199	26.74	133.6	4.70	3.92	1473.
225	4.79	33.81	223	26.78	129.9	5.03	4.63	1472.
250	4.53	33.82	248	26.82	126.6	5.35	5.41	1472.
300	4.29	33.87	298	26.88	120.7	5.97	7.14	1471.
400	4.14	33.99	397	26.99	111.0	7.13	11.27	1473.
500	3.89	34.09	496	27.10	101.5	8.19	16.16	1473.
600	3.65	34.16	595	27.18	94.7	9.17	21.63	1474.
800	3.27	34.28	793	27.31	83.4	10.94	34.25	1476.
1000	2.95	34.36	990	27.40	74.8	12.51	48.60	1478.
1200	2.68	34.43	1188	27.49	67.7	13.94	64.59	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 59

DATE 1/ 9/79

POSITION 50- .0N, 145- .0W

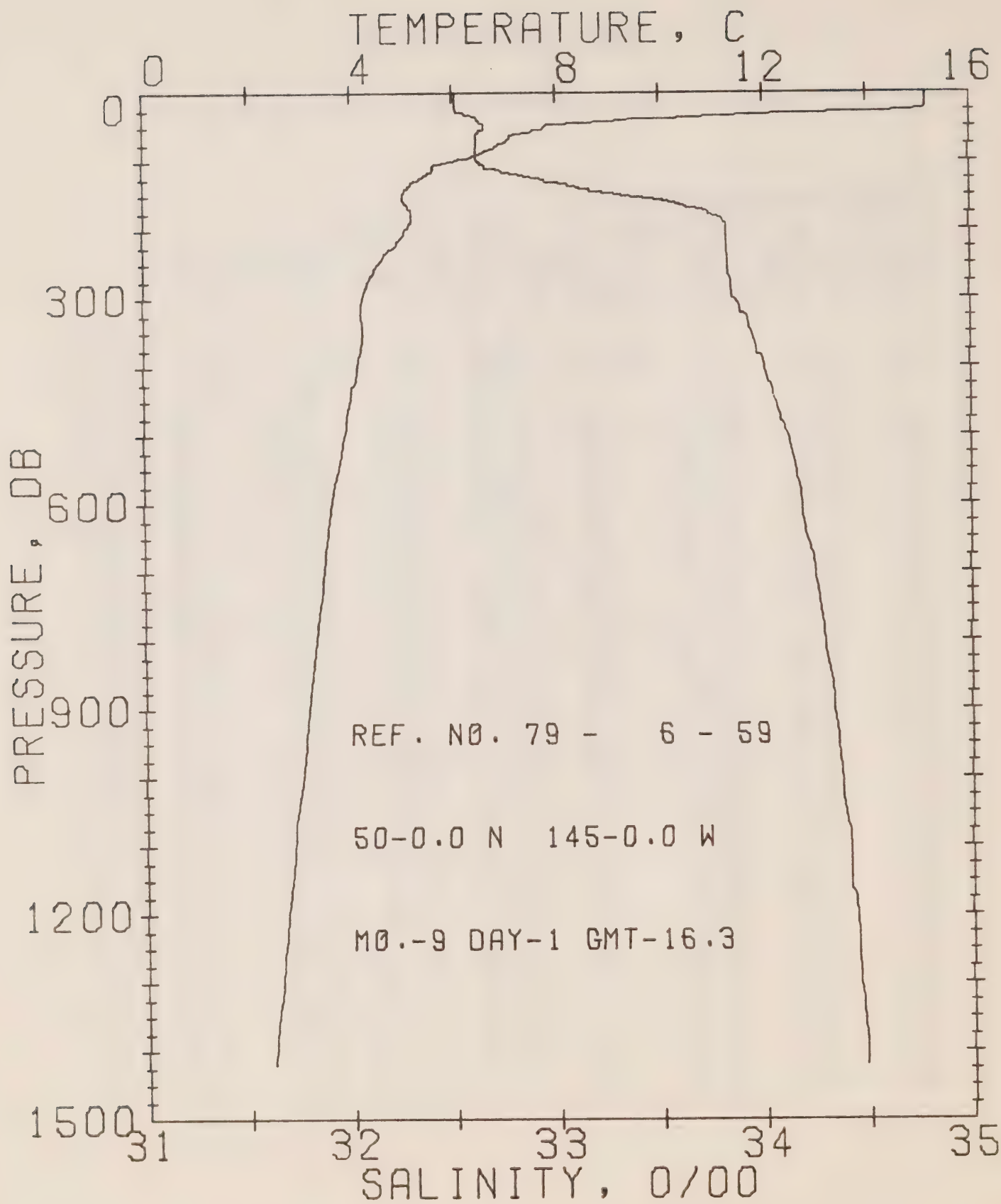
GMT 16.3

STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.18	32.51	0	24.04	388.2	.00	.00	1505.
10	15.15	32.51	10	24.05	387.9	.39	.02	1505.
20	15.15	32.51	20	24.05	388.2	.78	.08	1505.
30	13.04	32.55	30	24.51	343.8	1.15	.17	1498.
40	9.17	32.63	40	25.26	272.5	1.45	.28	1485.
50	7.76	32.65	50	25.49	250.9	1.71	.40	1480.
60	7.20	32.62	60	25.54	245.8	1.96	.54	1478.
70	7.04	32.62	70	25.56	243.9	2.21	.70	1477.
80	6.81	32.61	80	25.59	241.8	2.45	.89	1476.
90	6.47	32.61	89	25.63	237.7	2.69	1.10	1475.
100	5.91	32.63	99	25.72	229.5	2.93	1.32	1473.
110	5.63	32.70	109	25.81	221.2	3.15	1.57	1472.
120	5.47	32.81	119	25.91	211.2	3.37	1.82	1472.
130	5.18	33.00	129	26.09	193.8	3.57	2.08	1471.
140	5.08	33.14	139	26.22	182.4	3.76	2.34	1471.
150	5.04	33.32	149	26.36	168.5	3.94	2.60	1471.
160	5.10	33.55	159	26.54	152.1	4.09	2.85	1472.
170	5.19	33.68	169	26.63	143.5	4.24	3.10	1473.
180	5.19	33.76	179	26.69	137.7	4.38	3.35	1473.
190	5.15	33.82	189	26.75	132.8	4.52	3.60	1473.
200	5.06	33.82	199	26.76	132.0	4.65	3.86	1473.
210	4.98	33.82	209	26.77	131.1	4.78	4.14	1473.
220	4.89	33.82	219	26.78	130.2	4.91	4.42	1473.
230	4.71	33.82	228	26.80	128.3	5.04	4.72	1472.
240	4.60	33.83	238	26.82	126.4	5.17	5.03	1472.
250	4.50	33.83	248	26.83	125.5	5.30	5.34	1471.
260	4.45	33.83	258	26.83	125.0	5.42	5.67	1471.
270	4.35	33.83	268	26.85	123.8	5.54	6.00	1471.
280	4.31	33.84	278	26.86	122.9	5.67	6.35	1471.
290	4.24	33.85	288	26.87	121.5	5.79	6.71	1471.
300	4.21	33.85	298	26.88	121.1	5.91	7.07	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 59

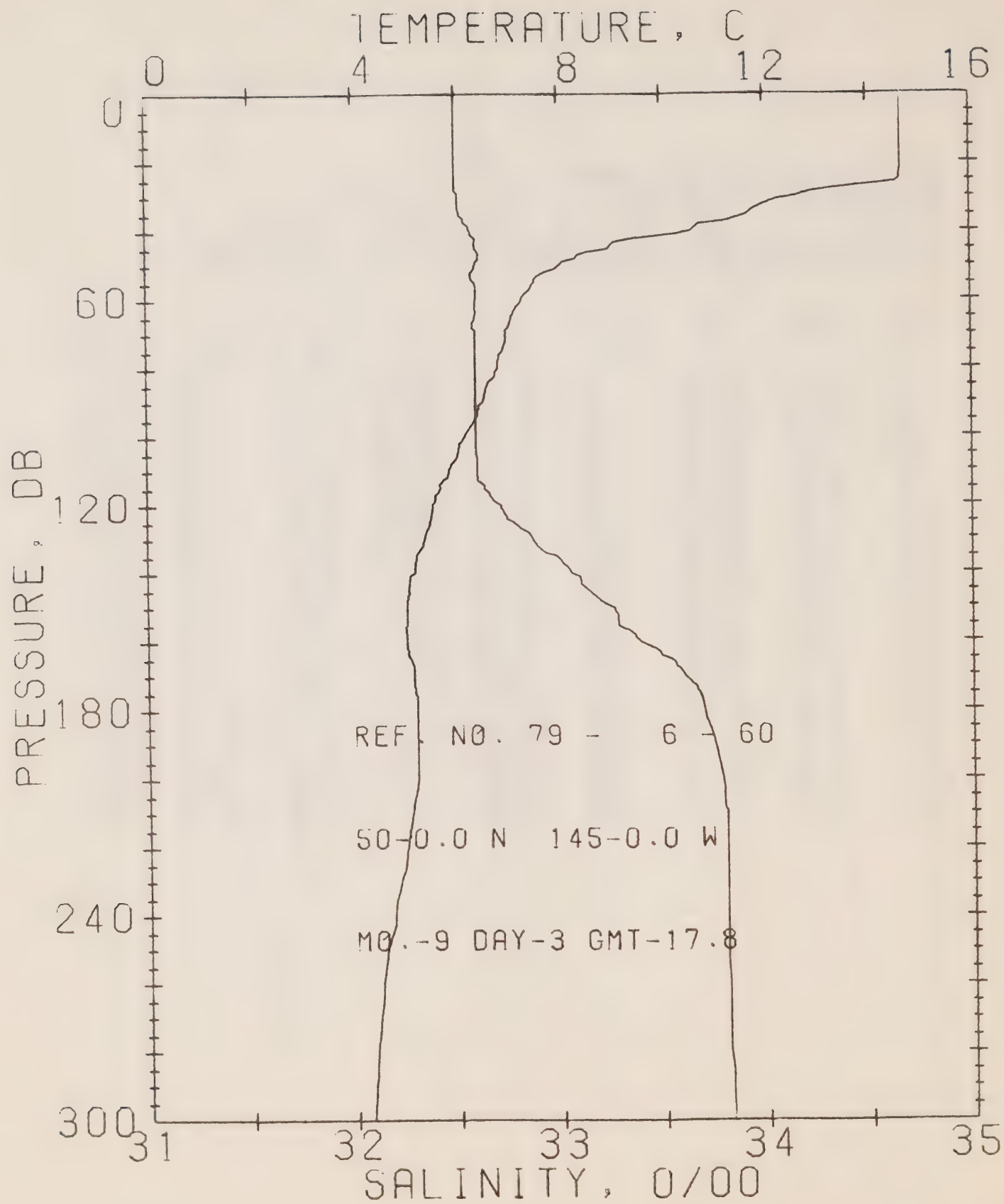
DATE 1/ 9/79

POSITION 50- .0N, 145- .0W GMT 16.3 STATION P

RESULTS OF STP CAST 253 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.18	32.51	0	24.04	388.2	.00	.00	1505.
10	15.15	32.51	10	24.05	387.9	.39	.02	1505.
20	15.15	32.51	20	24.05	388.2	.78	.08	1505.
30	13.04	32.55	30	24.51	343.8	1.15	.17	1498.
50	7.76	32.65	50	25.49	250.9	1.71	.40	1480.
75	6.88	32.62	75	25.59	241.9	2.33	.79	1477.
100	5.91	32.63	99	25.72	229.5	2.93	1.32	1473.
125	5.37	32.93	124	26.02	201.2	3.47	1.95	1472.
150	5.04	33.32	149	26.36	168.5	3.94	2.60	1471.
175	5.19	33.74	174	26.68	139.1	4.31	3.22	1473.
200	5.06	33.82	199	26.76	132.0	4.65	3.86	1473.
225	4.84	33.82	223	26.78	129.7	4.98	4.57	1472.
250	4.50	33.83	248	26.83	125.5	5.30	5.34	1471.
300	4.21	33.85	298	26.88	121.1	5.91	7.07	1471.
400	4.11	34.00	397	27.00	110.0	7.06	11.17	1472.
500	3.86	34.11	496	27.11	100.0	8.11	15.98	1473.
600	3.59	34.18	595	27.20	92.7	9.07	21.36	1474.
800	3.28	34.29	793	27.31	82.8	10.83	33.81	1476.
1000	3.00	34.37	990	27.40	75.1	12.40	48.21	1478.
1200	2.71	34.43	1188	27.48	68.1	13.83	64.19	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 60

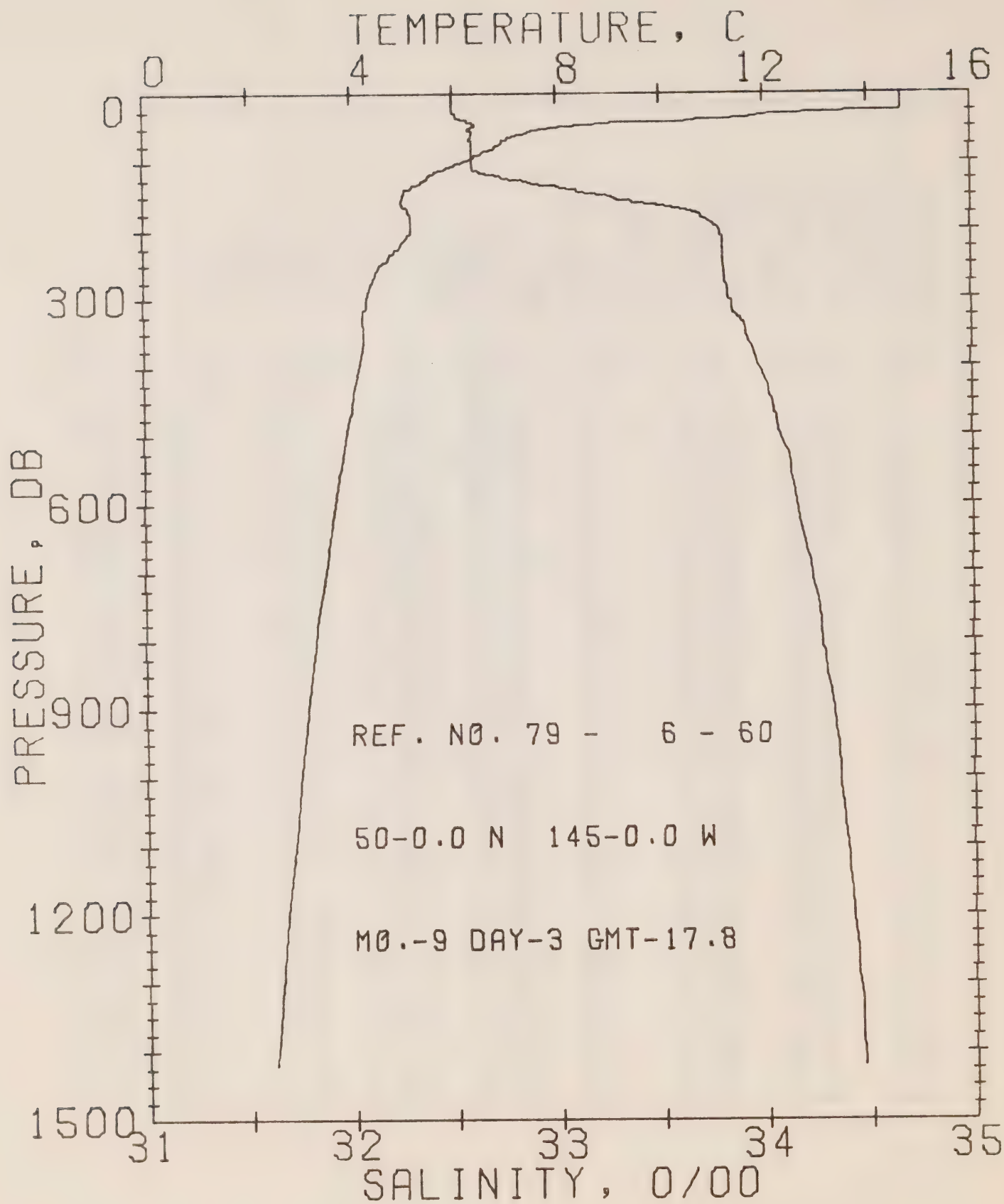
DATE 3/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.67	32.50	0	24.14	378.5	.00	.00	1503.
10	14.67	32.50	10	24.14	378.8	.38	.02	1503.
20	14.66	32.50	20	24.14	378.9	.76	.08	1504.
30	12.62	32.51	30	24.56	339.0	1.13	.17	1497.
40	10.60	32.57	40	24.98	299.5	1.44	.28	1490.
50	8.02	32.60	50	25.41	258.6	1.72	.41	1481.
60	7.28	32.60	60	25.51	248.7	1.97	.55	1478.
70	6.97	32.59	70	25.55	245.2	2.22	.71	1477.
80	6.79	32.59	80	25.57	243.0	2.46	.90	1476.
90	6.50	32.59	89	25.61	239.5	2.70	1.11	1475.
100	6.15	32.59	99	25.66	235.3	2.94	1.34	1474.
110	5.84	32.60	109	25.70	231.1	3.17	1.59	1473.
120	5.52	32.71	119	25.83	219.3	3.40	1.85	1472.
130	5.37	32.87	129	25.97	205.7	3.61	2.13	1472.
140	5.18	33.05	139	26.13	190.2	3.81	2.40	1471.
150	5.02	33.26	149	26.32	172.8	3.99	2.67	1471.
160	5.00	33.39	159	26.42	163.0	4.16	2.93	1471.
170	5.15	33.60	169	26.57	149.0	4.31	3.19	1473.
180	5.20	33.69	179	26.64	142.7	4.46	3.45	1473.
190	5.19	33.74	189	26.68	139.1	4.60	3.72	1473.
200	5.19	33.78	199	26.71	136.4	4.74	3.99	1473.
210	5.08	33.80	209	26.74	133.7	4.87	4.27	1473.
220	4.98	33.80	219	26.75	132.7	5.01	4.56	1473.
230	4.84	33.80	228	26.77	131.2	5.14	4.87	1473.
240	4.72	33.80	238	26.78	130.0	5.27	5.18	1472.
250	4.56	33.80	248	26.80	128.4	5.40	5.50	1472.
260	4.49	33.81	258	26.81	126.9	5.53	5.83	1472.
270	4.42	33.81	268	26.82	126.3	5.65	6.18	1471.
280	4.36	33.81	278	26.83	125.5	5.78	6.53	1471.
290	4.33	33.82	288	26.84	124.7	5.90	6.89	1471.
300	4.30	33.82	298	26.84	124.5	6.03	7.27	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 60

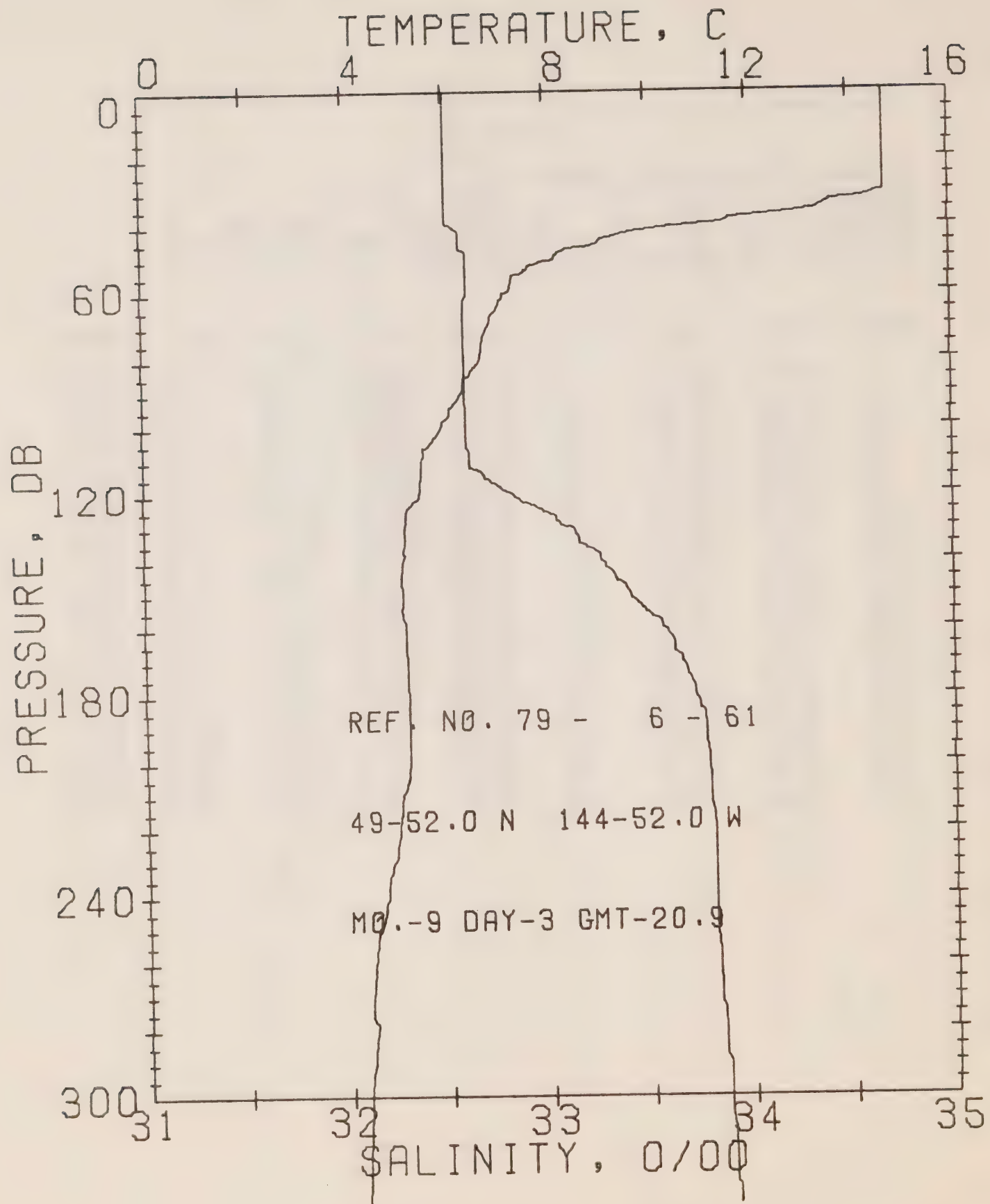
DATE 3/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 245 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.67	32.50	0	24.14	378.5	.00	.00	1503.
10	14.67	32.50	10	24.14	378.8	.38	.02	1503.
20	14.66	32.50	20	24.14	378.9	.76	.08	1504.
30	12.62	32.51	30	24.56	339.0	1.13	.17	1497.
50	8.02	32.60	50	25.41	258.6	1.72	.41	1481.
75	6.87	32.59	75	25.56	244.0	2.34	.80	1477.
100	6.15	32.59	99	25.66	235.3	2.94	1.34	1474.
125	5.47	32.78	124	25.89	213.5	3.51	1.99	1472.
150	5.02	33.26	149	26.32	172.8	3.99	2.67	1471.
175	5.18	33.67	174	26.62	144.2	4.39	3.32	1473.
200	5.19	33.78	199	26.71	136.4	4.74	3.99	1473.
225	4.93	33.80	223	26.76	132.2	5.07	4.71	1473.
250	4.56	33.80	248	26.80	128.4	5.40	5.50	1472.
300	4.30	33.82	298	26.84	124.5	6.03	7.27	1471.
400	4.13	33.97	397	26.98	112.4	7.21	11.47	1473.
500	3.88	34.07	496	27.08	103.3	8.28	16.38	1473.
600	3.65	34.15	595	27.17	95.7	9.27	21.91	1474.
800	3.26	34.27	793	27.30	83.9	11.06	34.62	1476.
1000	2.95	34.35	990	27.39	75.8	12.64	49.15	1478.
1200	2.68	34.41	1188	27.47	69.5	14.10	65.42	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 61

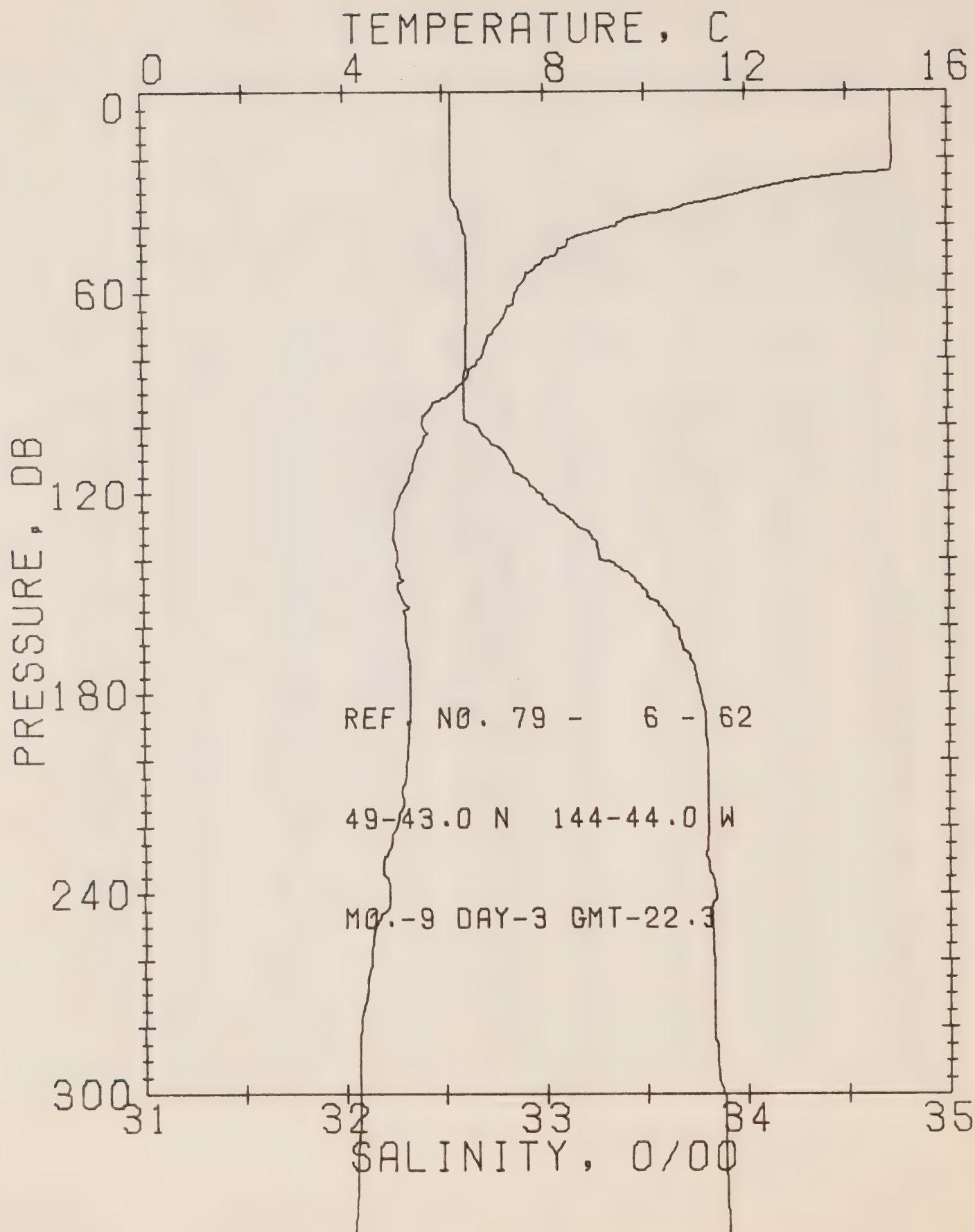
DATE 3/ 9/79

POSITION 49-52.0N, 144-52.0W GMT 20.9 STATION E3

RESULTS OF STP CAST 178 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.73	32.51	0	24.14	379.0	.00	.00	1503.
10	14.73	32.51	10	24.14	379.3	.38	.02	1504.
20	14.74	32.51	20	24.13	379.7	.76	.08	1504.
30	14.73	32.51	30	24.14	379.8	1.14	.17	1504.
40	10.89	32.53	40	24.90	307.4	1.49	.30	1491.
50	8.16	32.61	50	25.40	259.5	1.76	.42	1481.
60	7.18	32.61	60	25.54	246.3	2.01	.56	1478.
70	6.85	32.59	70	25.57	243.7	2.26	.73	1476.
80	6.66	32.60	80	25.60	240.7	2.50	.91	1476.
90	6.30	32.59	89	25.64	236.8	2.74	1.12	1475.
100	5.89	32.60	99	25.70	231.5	2.97	1.34	1473.
110	5.49	32.62	109	25.76	225.5	3.20	1.59	1472.
120	5.43	32.83	119	25.93	209.3	3.42	1.85	1472.
130	5.18	33.12	129	26.19	184.9	3.62	2.10	1471.
140	5.09	33.26	139	26.31	173.5	3.80	2.34	1471.
150	5.13	33.40	149	26.42	163.6	3.96	2.59	1472.
160	5.16	33.56	159	26.54	152.0	4.12	2.84	1472.
170	5.20	33.65	169	26.61	145.9	4.27	3.09	1473.
180	5.21	33.71	179	26.66	141.2	4.41	3.35	1473.
190	5.23	33.77	189	26.70	137.5	4.55	3.61	1473.
200	5.19	33.78	199	26.71	136.4	4.69	3.88	1473.
210	5.04	33.79	209	26.74	134.0	4.82	4.16	1473.
220	4.95	33.81	219	26.76	131.6	4.96	4.45	1473.
230	4.83	33.81	228	26.77	130.4	5.09	4.75	1472.
240	4.71	33.81	238	26.79	129.1	5.22	5.06	1472.
250	4.56	33.81	248	26.80	127.6	5.35	5.39	1472.
260	4.44	33.82	258	26.83	125.7	5.47	5.71	1471.
270	4.39	33.83	268	26.84	124.4	5.60	6.05	1471.
280	4.47	33.85	278	26.85	123.9	5.72	6.40	1472.
290	4.39	33.87	288	26.87	121.7	5.85	6.76	1472.
300	4.33	33.87	298	26.88	121.1	5.97	7.12	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 62

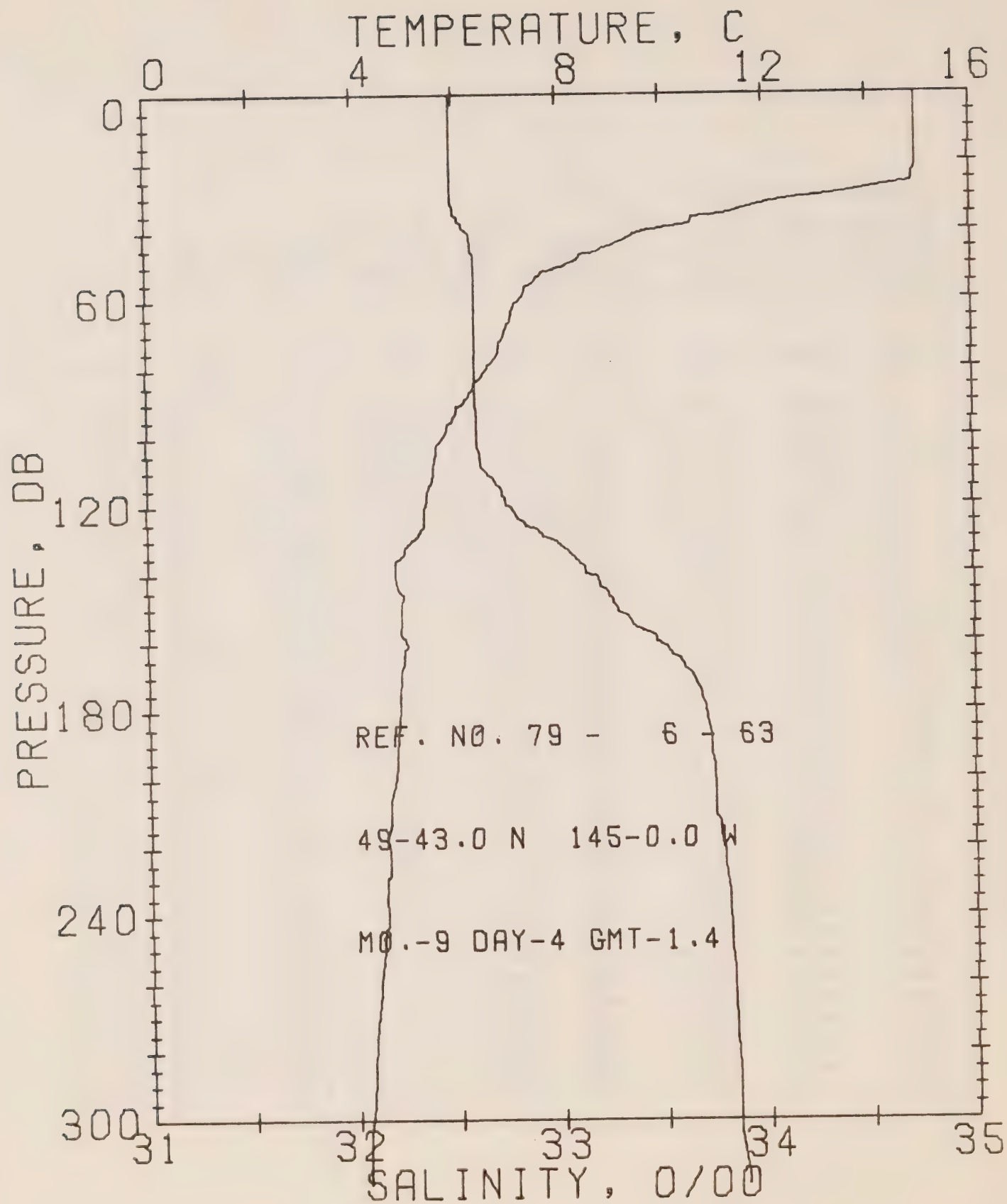
DATE 3/ 9/79

POSITION 49-43.0N, 144-44.0W GMT 22.3 STATION E4

RESULTS OF STP CAST 183 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

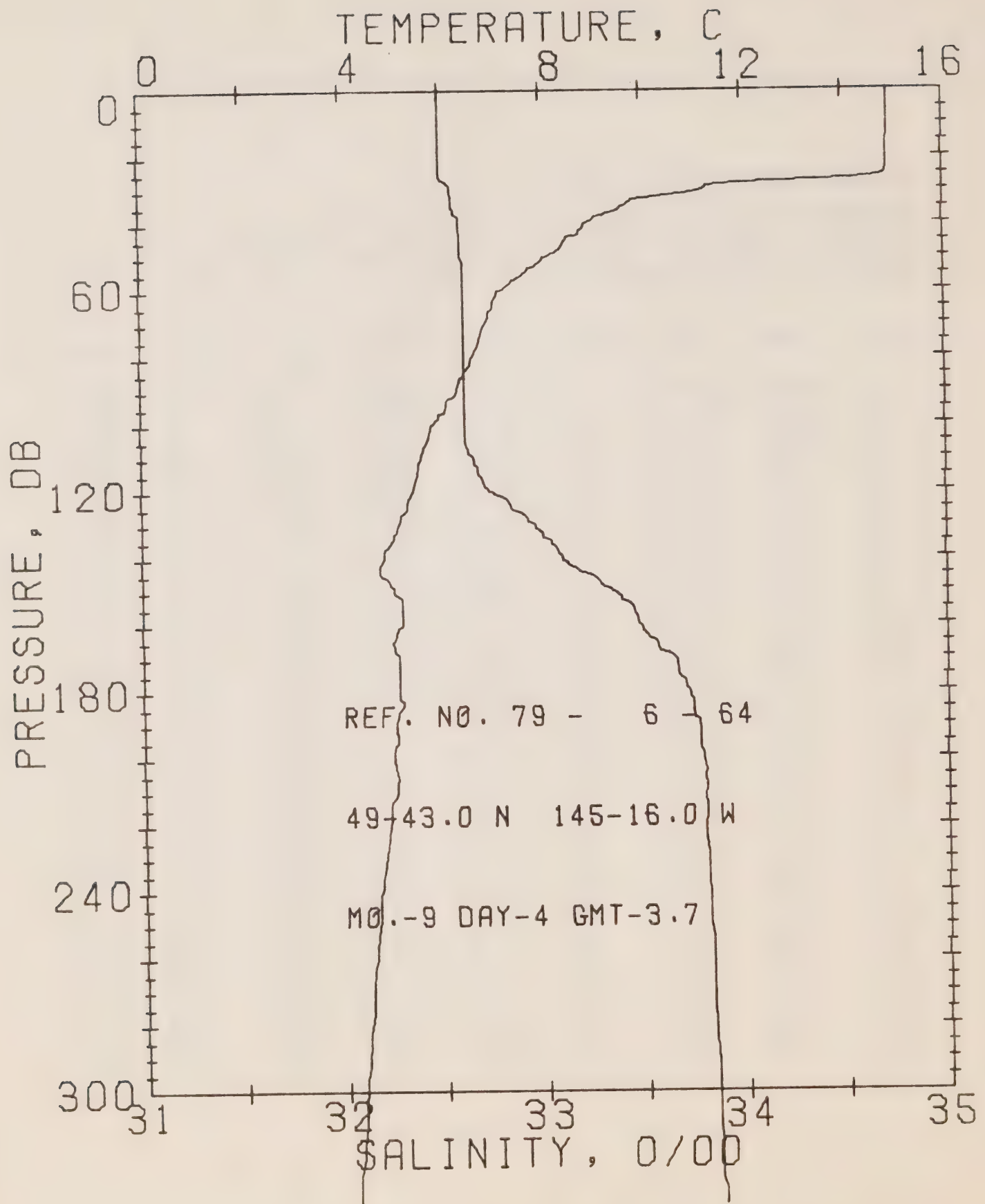
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.91	32.54	0	24.12	380.5	.00	.00	1504.
10	14.92	32.54	10	24.12	381.0	.38	.02	1504.
20	14.92	32.54	20	24.12	381.2	.76	.08	1504.
30	11.97	32.54	30	24.71	325.0	1.12	.17	1495.
40	9.43	32.59	40	25.19	279.4	1.42	.28	1486.
50	7.97	32.62	50	25.43	256.1	1.69	.40	1481.
60	7.41	32.62	60	25.51	248.6	1.94	.54	1479.
70	7.04	32.61	70	25.56	244.4	2.18	.70	1477.
80	6.67	32.61	80	25.61	240.0	2.43	.89	1476.
90	6.13	32.60	89	25.67	234.3	2.66	1.09	1474.
100	5.60	32.66	99	25.78	223.7	2.89	1.31	1472.
110	5.39	32.82	109	25.93	209.5	3.11	1.55	1472.
120	5.12	32.96	119	26.07	196.1	3.31	1.78	1471.
130	4.98	33.15	129	26.24	180.4	3.50	2.02	1471.
140	5.06	33.27	139	26.32	172.4	3.68	2.26	1471.
150	5.12	33.50	149	26.50	156.0	3.84	2.50	1472.
160	5.19	33.63	159	26.59	147.1	3.99	2.74	1473.
170	5.30	33.71	169	26.64	142.5	4.14	2.99	1473.
180	5.30	33.76	179	26.68	138.7	4.28	3.24	1474.
190	5.25	33.79	189	26.71	136.2	4.41	3.50	1474.
200	5.22	33.80	199	26.72	135.2	4.55	3.76	1474.
210	5.13	33.80	209	26.73	134.3	4.68	4.05	1473.
220	4.99	33.80	219	26.75	132.8	4.82	4.34	1473.
230	4.75	33.80	228	26.77	130.6	4.95	4.64	1472.
240	4.86	33.84	238	26.79	128.8	5.08	4.95	1473.
250	4.55	33.82	248	26.81	127.1	5.21	5.27	1472.
260	4.51	33.83	258	26.83	125.7	5.33	5.60	1472.
270	4.39	33.83	268	26.84	124.5	5.46	5.94	1471.
280	4.27	33.83	278	26.85	123.3	5.58	6.29	1471.
290	4.25	33.84	288	26.86	122.4	5.70	6.64	1471.
300	4.25	33.87	298	26.89	120.2	5.83	7.01	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 63 DATE 4/ 9/79
 POSITION 49-43.0N, 145- .0W GMT 1.4 STATION C1
 RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.96	32.49	0	24.07	385.2	.00	.00	1504.
10	14.97	32.49	10	24.07	385.6	.39	.02	1504.
20	14.97	32.49	20	24.07	385.8	.77	.08	1505.
30	13.03	32.49	30	24.47	348.1	1.15	.17	1498.
40	9.66	32.56	40	25.13	285.2	1.46	.29	1487.
50	8.14	32.59	50	25.39	260.7	1.74	.41	1481.
60	7.24	32.60	60	25.52	247.8	1.99	.55	1478.
70	6.93	32.59	70	25.56	244.3	2.23	.71	1477.
80	6.59	32.59	80	25.60	240.5	2.48	.90	1476.
90	6.14	32.59	89	25.66	235.2	2.71	1.11	1474.
100	5.72	32.60	99	25.72	229.6	2.95	1.33	1472.
110	5.55	32.63	109	25.76	225.0	3.17	1.57	1472.
120	5.39	32.74	119	25.87	215.5	3.39	1.83	1472.
130	5.12	32.96	129	26.07	196.2	3.60	2.10	1471.
140	4.81	33.12	139	26.23	180.9	3.79	2.35	1470.
150	4.91	33.26	149	26.34	171.2	3.96	2.61	1471.
160	5.01	33.46	159	26.48	157.8	4.13	2.87	1472.
170	4.87	33.63	169	26.63	143.7	4.28	3.12	1471.
180	4.85	33.69	179	26.68	138.8	4.42	3.37	1472.
190	4.80	33.72	189	26.71	136.3	4.55	3.63	1472.
200	4.75	33.73	199	26.72	134.9	4.69	3.90	1472.
210	4.64	33.74	209	26.74	133.3	4.82	4.18	1471.
220	4.62	33.78	219	26.77	130.6	4.96	4.47	1471.
230	4.56	33.79	228	26.79	128.8	5.09	4.77	1471.
240	4.57	33.80	238	26.80	128.2	5.21	5.08	1472.
250	4.49	33.81	248	26.81	126.8	5.34	5.39	1471.
260	4.40	33.82	258	26.83	125.2	5.47	5.72	1471.
270	4.34	33.83	268	26.84	124.2	5.59	6.06	1471.
280	4.29	33.83	278	26.85	123.1	5.72	6.40	1471.
290	4.26	33.84	288	26.86	122.5	5.84	6.76	1471.
300	4.20	33.84	298	26.87	122.0	5.96	7.13	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 64

DATE 4/ 9/79

POSITION 49-43.0N, 145-16.0W

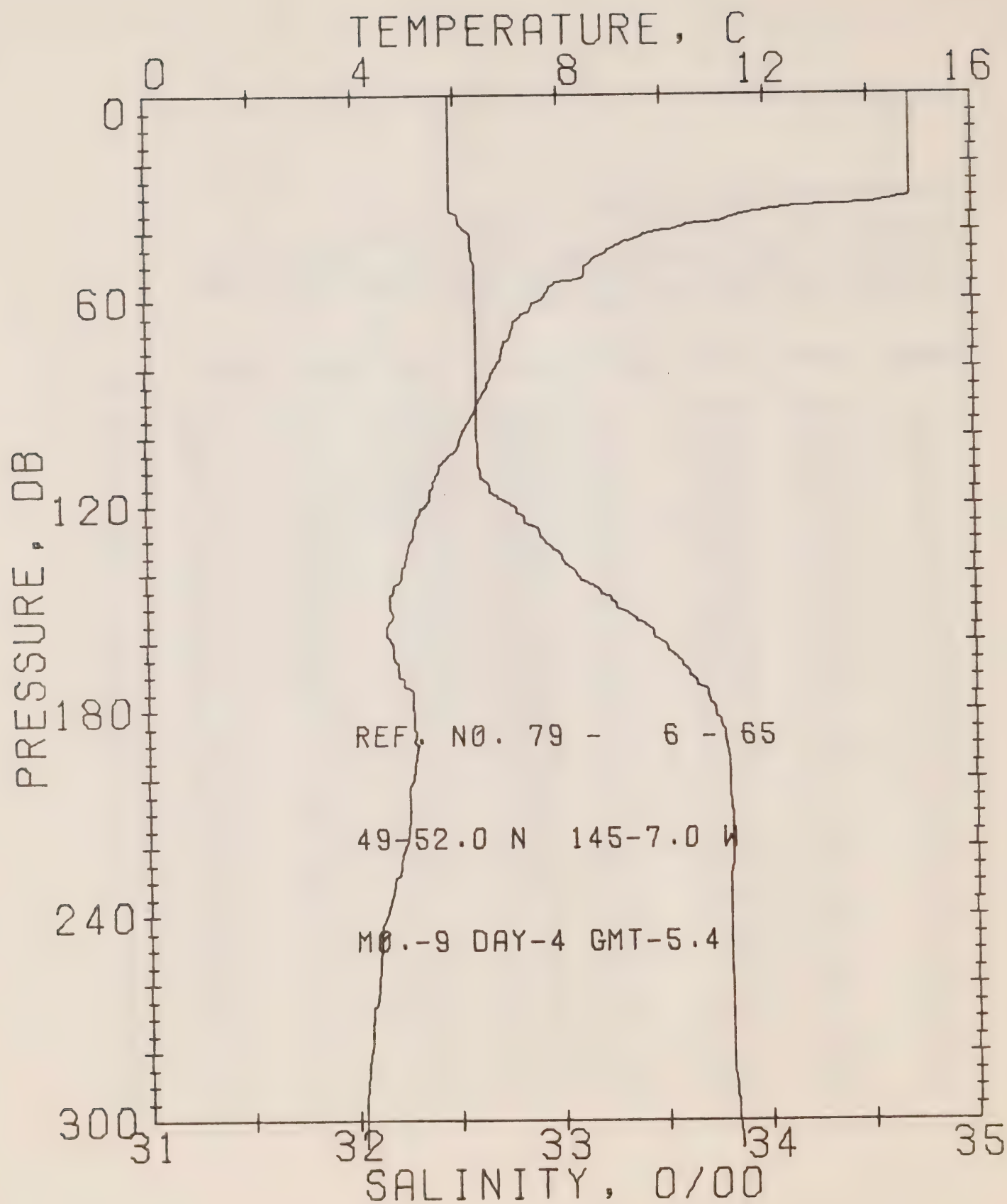
GMT 3.7

STATION W4

RESULTS OF STP CAST 193 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.93	32.50	0	24.09	383.8	.00	.00	1504.
10	14.93	32.50	10	24.09	384.1	.38	.02	1504.
20	14.91	32.50	20	24.09	384.0	.77	.08	1504.
30	11.20	32.55	30	24.86	310.9	1.13	.17	1492.
40	8.87	32.59	40	25.28	271.0	1.42	.27	1484.
50	8.05	32.60	50	25.41	258.7	1.68	.39	1481.
60	7.15	32.61	60	25.54	245.9	1.94	.54	1477.
70	6.87	32.61	70	25.58	242.4	2.18	.70	1477.
80	6.60	32.61	80	25.61	239.2	2.42	.88	1476.
90	6.29	32.61	89	25.65	235.5	2.66	1.09	1475.
100	5.78	32.61	99	25.72	229.5	2.89	1.31	1473.
110	5.58	32.65	109	25.77	224.3	3.12	1.56	1472.
120	5.39	32.73	119	25.86	216.3	3.34	1.81	1472.
130	5.09	32.96	129	26.07	195.8	3.55	2.08	1471.
140	4.79	33.09	139	26.21	182.9	3.73	2.34	1470.
150	5.01	33.34	149	26.38	166.7	3.91	2.59	1471.
160	5.16	33.47	159	26.47	158.8	4.07	2.85	1472.
170	5.10	33.63	169	26.61	145.9	4.22	3.11	1472.
180	5.09	33.71	179	26.67	140.3	4.37	3.36	1473.
190	5.05	33.76	189	26.71	136.2	4.51	3.62	1473.
200	4.99	33.78	199	26.73	134.1	4.64	3.89	1473.
210	5.02	33.80	209	26.75	133.1	4.77	4.17	1473.
220	4.85	33.79	219	26.76	132.0	4.91	4.46	1472.
230	4.77	33.80	228	26.77	130.5	5.04	4.76	1472.
240	4.68	33.81	238	26.79	128.8	5.17	5.07	1472.
250	4.60	33.81	248	26.80	128.0	5.30	5.39	1472.
260	4.55	33.82	258	26.81	126.8	5.42	5.72	1472.
270	4.49	33.82	268	26.82	126.3	5.55	6.07	1472.
280	4.42	33.83	278	26.84	124.9	5.68	6.42	1472.
290	4.37	33.84	288	26.85	123.8	5.80	6.78	1472.
300	4.33	33.84	298	26.85	123.3	5.92	7.15	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 65

DATE 4/ 9/79

POSITION 49-52.0N, 145- 7.0W

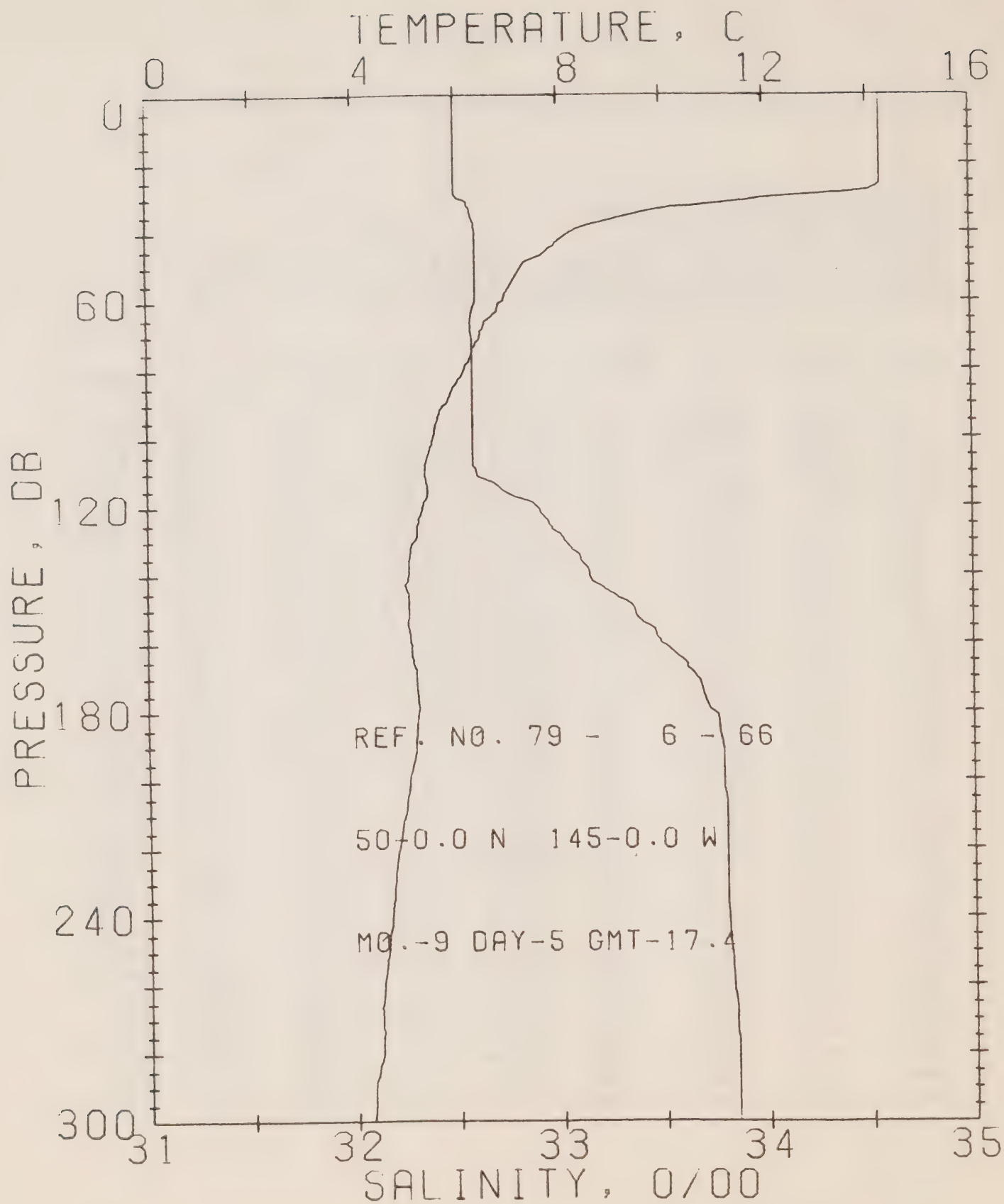
GMT 5.4

STATION W3

RESULTS OF STP CAST 195 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.83	32.48	0	24.09	383.3	.00	.00	1504.
10	14.84	32.48	10	24.09	383.7	.38	.02	1504.
20	14.84	32.48	20	24.09	384.0	.77	.08	1504.
30	14.78	32.48	30	24.10	383.0	1.15	.18	1504.
40	9.86	32.56	40	25.10	288.3	1.48	.29	1487.
50	8.50	32.59	50	25.33	265.8	1.76	.42	1483.
60	7.64	32.59	60	25.46	253.9	2.02	.56	1479.
70	7.04	32.60	70	25.55	245.4	2.26	.73	1477.
80	6.73	32.60	80	25.59	241.5	2.51	.91	1476.
90	6.37	32.60	89	25.64	237.2	2.75	1.12	1475.
100	6.06	32.59	99	25.67	234.3	2.98	1.35	1474.
110	5.63	32.61	109	25.74	227.9	3.21	1.60	1472.
120	5.37	32.76	119	25.88	213.8	3.44	1.86	1472.
130	5.08	32.91	129	26.04	199.1	3.64	2.12	1471.
140	4.90	33.06	139	26.17	186.3	3.83	2.39	1470.
150	4.69	33.27	149	26.36	168.5	4.01	2.65	1470.
160	4.72	33.48	159	26.53	153.2	4.17	2.90	1470.
170	4.86	33.61	169	26.61	145.1	4.32	3.15	1471.
180	5.13	33.73	179	26.68	138.8	4.46	3.40	1473.
190	5.19	33.79	189	26.72	135.5	4.60	3.66	1473.
200	5.09	33.81	199	26.75	133.0	4.73	3.92	1473.
210	5.02	33.82	209	26.76	131.6	4.86	4.20	1473.
220	4.91	33.82	219	26.77	130.4	4.99	4.49	1473.
230	4.71	33.81	228	26.79	129.1	5.12	4.79	1472.
240	4.54	33.81	238	26.81	127.3	5.25	5.09	1471.
250	4.42	33.80	248	26.81	126.8	5.38	5.41	1471.
260	4.37	33.81	258	26.83	125.6	5.51	5.74	1471.
270	4.26	33.81	268	26.84	124.6	5.63	6.08	1471.
280	4.20	33.81	278	26.84	124.0	5.76	6.42	1471.
290	4.12	33.82	288	26.86	122.5	5.88	6.78	1471.
300	4.11	33.83	298	26.87	121.6	6.00	7.15	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 66

DATE 5/ 9/79

POSITION 50- .0N, 145- .0W

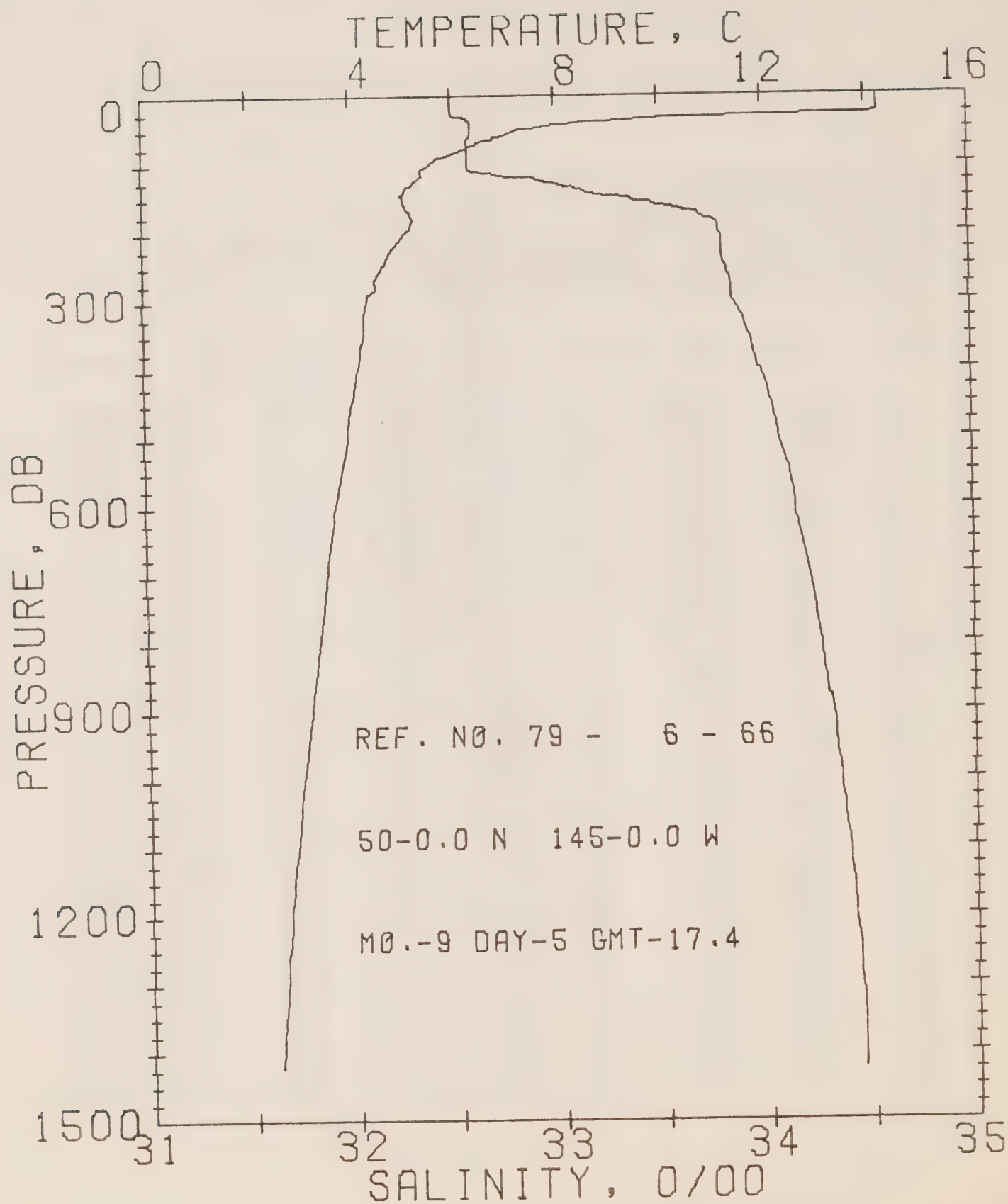
GMT 17.4

STATION P

RESULTS OF STP CAST 169 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.27	32.50	0	24.22	370.5	.00	.00	1502.
10	14.27	32.50	10	24.22	370.8	.37	.02	1502.
20	14.27	32.50	20	24.22	371.0	.74	.08	1502.
30	12.04	32.51	30	24.67	328.5	1.11	.17	1495.
40	8.25	32.60	40	25.38	261.3	1.39	.27	1481.
50	7.29	32.60	50	25.52	248.4	1.65	.39	1478.
60	6.93	32.60	60	25.56	243.8	1.89	.52	1477.
70	6.47	32.57	70	25.60	240.0	2.14	.69	1475.
80	6.16	32.58	80	25.65	236.0	2.37	.87	1474.
90	5.80	32.58	89	25.69	231.9	2.61	1.07	1473.
100	5.54	32.58	99	25.72	229.0	2.84	1.29	1472.
110	5.39	32.59	109	25.75	226.3	3.07	1.54	1471.
120	5.35	32.88	119	25.98	204.2	3.28	1.79	1472.
130	5.20	33.02	129	26.11	192.6	3.48	2.04	1471.
140	5.07	33.14	139	26.22	182.2	3.67	2.30	1471.
150	5.07	33.36	149	26.39	165.9	3.84	2.56	1472.
160	5.10	33.49	159	26.49	156.6	4.00	2.81	1472.
170	5.21	33.66	169	26.61	145.2	4.15	3.06	1473.
180	5.24	33.74	179	26.67	139.7	4.30	3.32	1473.
190	5.17	33.78	189	26.72	135.7	4.43	3.58	1473.
200	5.05	33.79	199	26.73	134.0	4.57	3.84	1473.
210	4.95	33.80	209	26.75	132.3	4.70	4.12	1473.
220	4.82	33.80	218	26.77	130.9	4.83	4.41	1472.
230	4.74	33.80	228	26.78	130.1	4.96	4.71	1472.
240	4.67	33.81	238	26.79	129.1	5.09	5.02	1472.
250	4.59	33.82	248	26.81	127.4	5.22	5.34	1472.
260	4.52	33.83	258	26.82	125.8	5.35	5.67	1472.
270	4.48	33.84	268	26.84	124.6	5.47	6.01	1472.
280	4.47	33.85	278	26.85	124.0	5.60	6.36	1472.
290	4.33	33.85	288	26.86	122.5	5.72	6.71	1471.
300	4.30	33.85	298	26.86	122.3	5.84	7.08	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 66

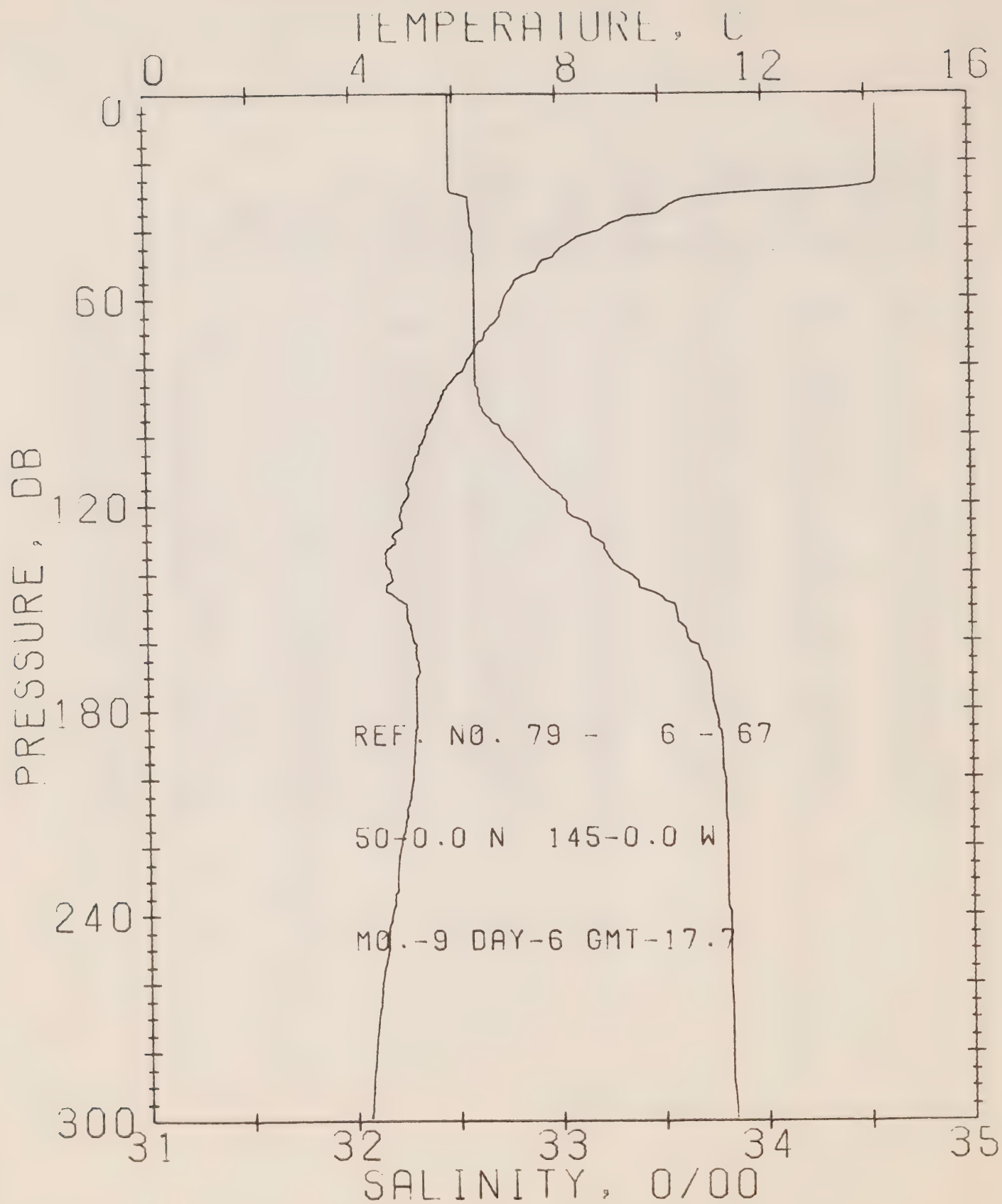
DATE 5/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 257 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

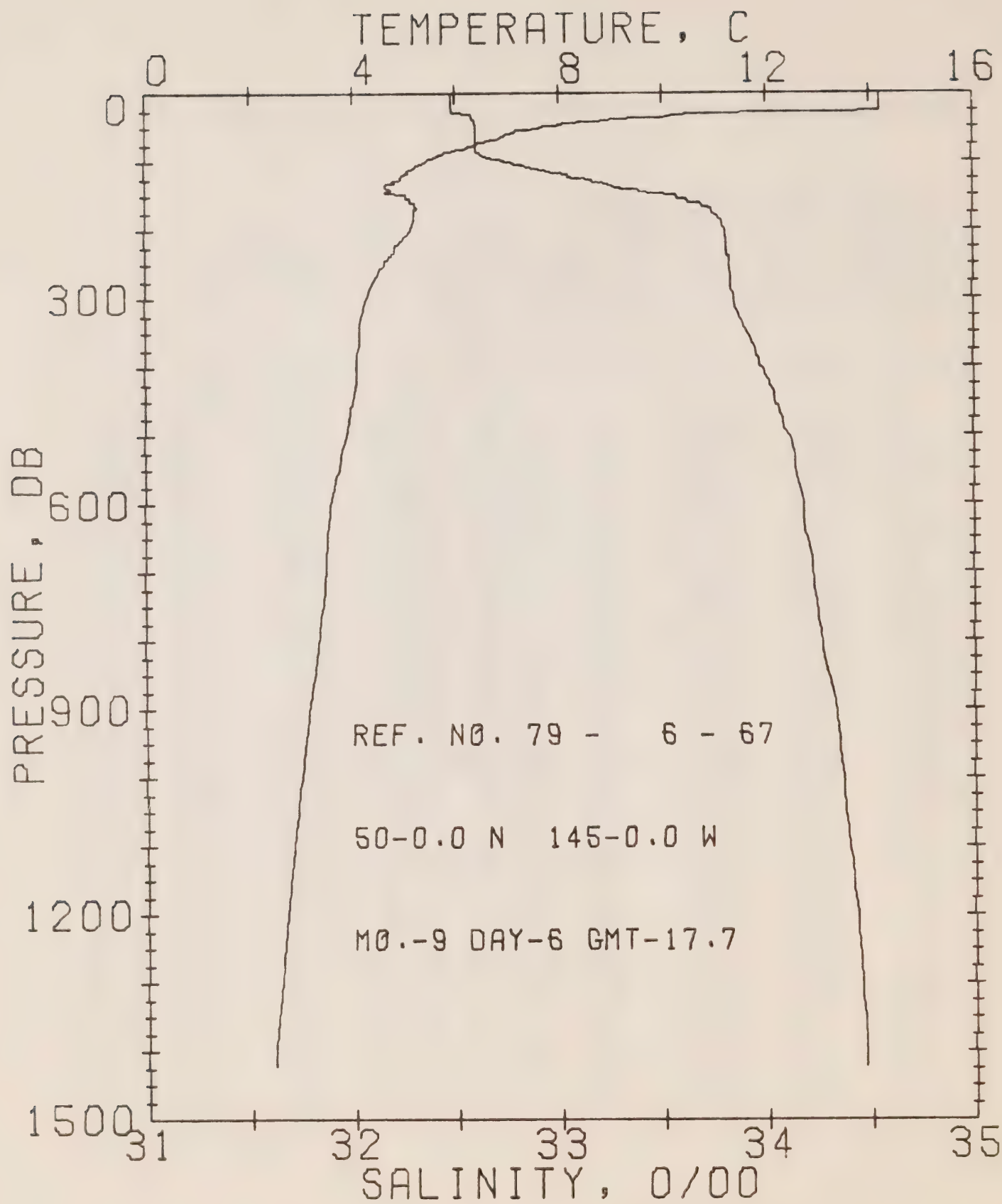
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.27	32.50	0	24.22	370.5	.00	.00	1502.
10	14.27	32.50	10	24.22	370.8	.37	.02	1502.
20	14.27	32.50	20	24.22	371.0	.74	.08	1502.
30	12.04	32.51	30	24.67	328.5	1.11	.17	1495.
50	7.29	32.60	50	25.52	248.4	1.65	.39	1478.
75	6.31	32.58	75	25.63	237.7	2.26	.77	1474.
100	5.54	32.58	99	25.72	229.0	2.84	1.29	1472.
125	5.25	32.95	124	26.05	198.3	3.38	1.92	1471.
150	5.07	33.36	149	26.39	165.9	3.84	2.56	1472.
175	5.23	33.69	174	26.63	143.3	4.23	3.19	1473.
200	5.05	33.79	199	26.73	134.0	4.57	3.84	1473.
225	4.77	33.80	223	26.77	130.4	4.90	4.56	1472.
250	4.59	33.82	248	26.81	127.4	5.22	5.34	1472.
300	4.30	33.85	298	26.86	122.3	5.84	7.08	1471.
400	4.10	33.98	397	26.99	111.5	7.01	11.22	1472.
500	3.89	34.06	496	27.07	103.8	8.08	16.12	1473.
600	3.63	34.14	595	27.16	95.9	9.07	21.69	1474.
800	3.29	34.26	793	27.29	84.9	10.88	34.57	1476.
1000	2.94	34.35	990	27.39	75.7	12.48	49.25	1478.
1200	2.67	34.41	1188	27.47	69.4	13.93	65.46	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 67 DATE 6/ 9/79
 POSITION 50- .0N, 145- .0W GMT 17.7 STATION P
 RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.22	32.48	0	24.22	371.0	.00	.00	1502.
10	14.22	32.48	10	24.22	371.3	.37	.02	1502.
20	14.22	32.48	20	24.22	371.5	.74	.08	1502.
30	10.92	32.57	30	24.92	304.7	1.10	.17	1491.
40	8.86	32.59	40	25.28	270.9	1.39	.27	1484.
50	7.67	32.60	50	25.46	253.4	1.65	.39	1479.
60	6.97	32.60	60	25.56	244.3	1.90	.53	1477.
70	6.60	32.60	70	25.61	239.8	2.14	.69	1475.
80	6.19	32.60	80	25.66	234.9	2.38	.87	1474.
90	5.72	32.62	89	25.73	227.9	2.61	1.07	1472.
100	5.41	32.74	99	25.86	215.6	2.83	1.28	1471.
110	5.16	32.88	109	26.00	202.4	3.04	1.51	1471.
120	4.97	33.04	119	26.15	188.4	3.24	1.74	1470.
130	4.83	33.18	129	26.28	176.5	3.42	1.97	1470.
140	4.76	33.35	139	26.42	163.1	3.59	2.20	1470.
150	5.03	33.50	149	26.56	150.3	3.74	2.43	1472.
160	5.18	33.63	159	26.59	147.0	3.89	2.67	1473.
170	5.24	33.73	169	26.66	140.4	4.04	2.91	1473.
180	5.20	33.75	179	26.69	138.1	4.18	3.16	1473.
190	5.16	33.79	189	26.72	135.4	4.31	3.41	1473.
200	5.11	33.80	199	26.73	134.0	4.45	3.68	1473.
210	5.00	33.80	209	26.75	132.8	4.58	3.96	1473.
220	4.88	33.81	218	26.77	130.8	4.71	4.25	1473.
230	4.80	33.81	228	26.78	130.0	4.84	4.55	1472.
240	4.69	33.82	238	26.80	128.2	4.97	4.86	1472.
250	4.61	33.82	248	26.81	127.4	5.10	5.18	1472.
260	4.48	33.82	258	26.82	126.1	5.23	5.51	1472.
270	4.41	33.83	268	26.84	124.7	5.35	5.85	1471.
280	4.35	33.83	278	26.84	124.1	5.48	6.19	1471.
290	4.29	33.83	288	26.85	123.4	5.60	6.55	1471.
300	4.24	33.84	298	26.86	122.4	5.72	6.92	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 67

DATE 6/ 9/79

POSITION 50- .0N, 145- .0W

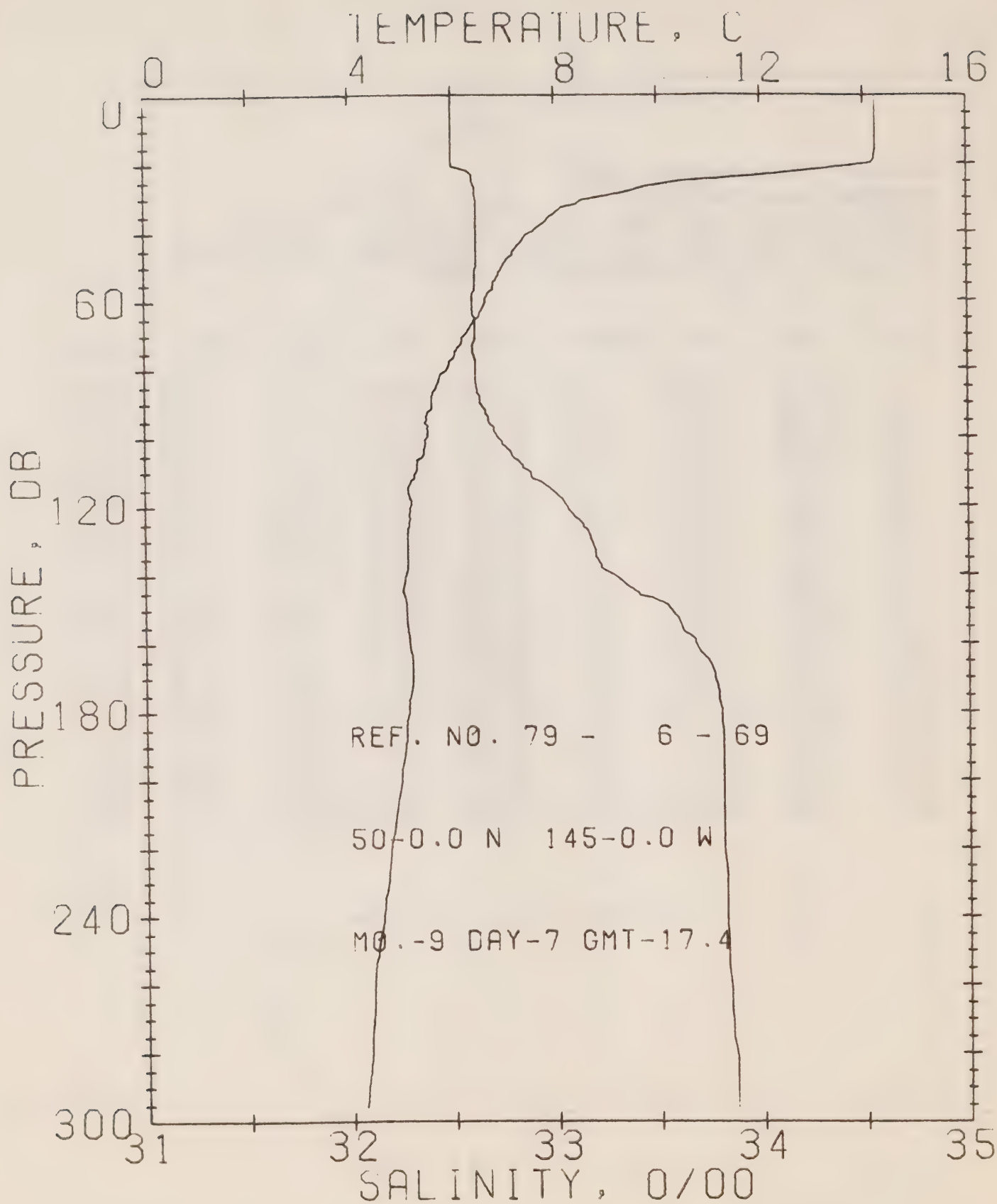
GMT 17.7

STATION P

RESULTS OF STP CAST 259 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.22	32.48	0	24.22	371.0	.00	.00	1502.
10	14.22	32.48	10	24.22	371.3	.37	.02	1502.
20	14.22	32.48	20	24.22	371.5	.74	.08	1502.
30	10.92	32.57	30	24.92	304.7	1.10	.17	1491.
50	7.67	32.60	50	25.46	253.4	1.65	.39	1479.
75	6.38	32.60	75	25.64	237.1	2.26	.78	1475.
100	5.41	32.74	99	25.86	215.6	2.83	1.28	1471.
125	4.96	33.14	124	26.23	180.9	3.33	1.85	1470.
150	5.03	33.56	149	26.56	150.3	3.74	2.43	1472.
175	5.20	33.74	174	26.67	139.5	4.11	3.03	1473.
200	5.11	33.80	199	26.73	134.0	4.45	3.68	1473.
225	4.82	33.81	223	26.78	130.3	4.78	4.40	1472.
250	4.61	33.82	248	26.81	127.4	5.10	5.18	1472.
300	4.24	33.84	298	26.86	122.4	5.72	6.92	1471.
400	4.06	33.97	397	26.98	111.6	6.89	11.08	1472.
500	3.84	34.10	496	27.11	100.2	7.95	15.93	1473.
600	3.53	34.17	595	27.20	92.6	8.91	21.32	1474.
800	3.29	34.26	793	27.29	85.0	10.69	34.01	1476.
1000	2.95	34.36	990	27.40	75.1	12.28	48.56	1478.
1200	2.67	34.43	1188	27.48	67.9	13.72	64.62	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 69

DATE 7/ 9/79

POSITION 50- .0N, 145- .0W

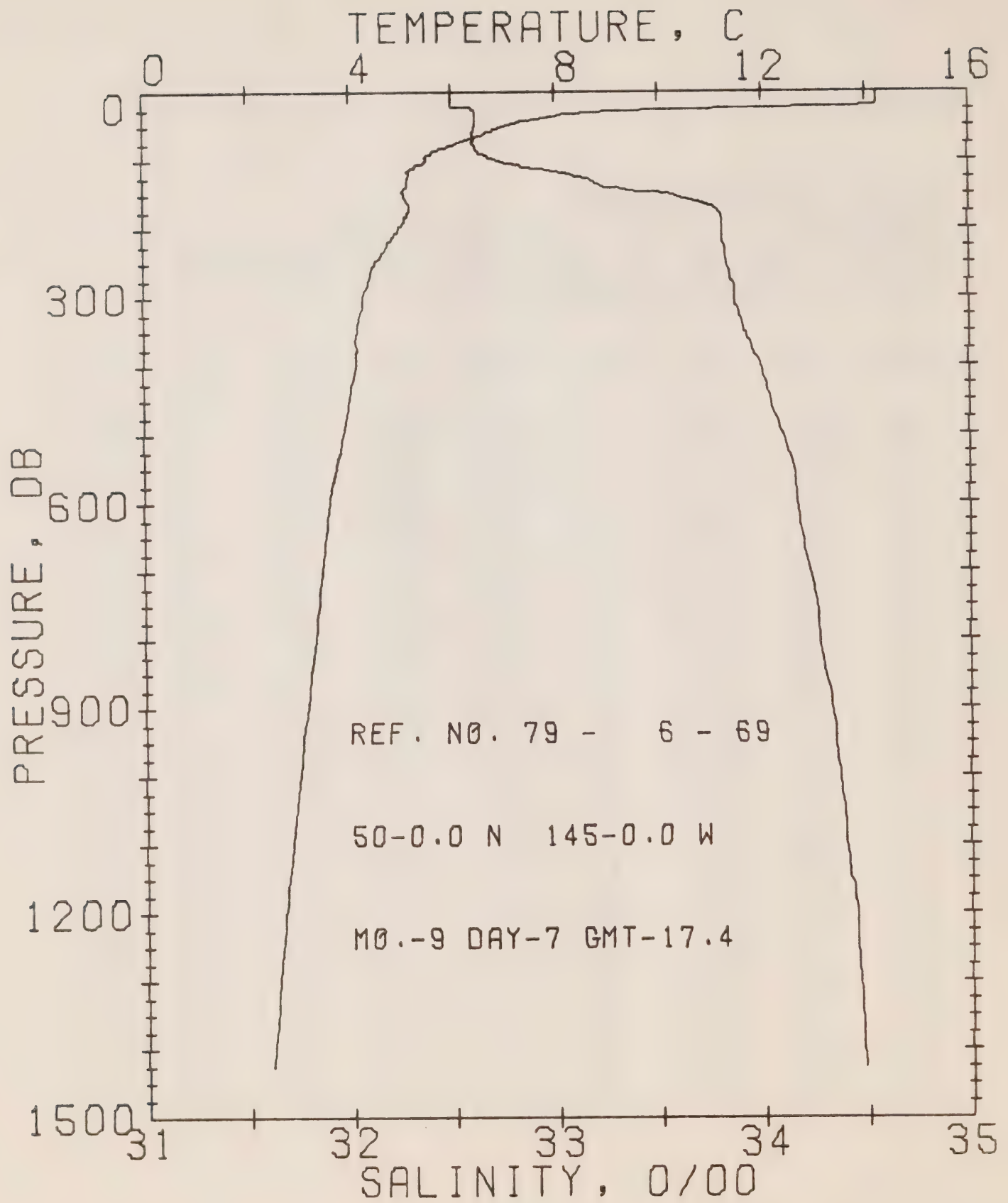
GMT 17.4

STATION P

RESULTS OF STP CAST 164 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.23	32.50	0	24.23	369.7	.00	.00	1502.
10	14.23	32.50	10	24.23	370.0	.37	.02	1502.
20	14.15	32.50	20	24.25	368.7	.74	.08	1502.
30	8.88	32.61	30	25.29	269.2	1.05	.15	1484.
40	7.56	32.62	40	25.49	250.3	1.30	.24	1479.
50	6.98	32.62	50	25.57	242.8	1.55	.36	1477.
60	6.65	32.60	60	25.60	240.3	1.79	.49	1475.
70	6.27	32.61	70	25.66	235.0	2.03	.65	1474.
80	5.92	32.61	80	25.70	230.9	2.26	.83	1473.
90	5.60	32.63	89	25.75	225.8	2.49	1.03	1472.
100	5.52	32.72	99	25.83	218.3	2.71	1.24	1472.
110	5.31	32.88	109	25.99	204.1	2.92	1.47	1471.
120	5.20	33.05	119	26.13	190.2	3.12	1.70	1471.
130	5.12	33.17	129	26.24	180.5	3.31	1.93	1471.
140	5.09	33.28	139	26.33	172.0	3.48	2.18	1471.
150	5.10	33.55	149	26.54	151.8	3.64	2.42	1472.
160	5.15	33.67	159	26.63	143.7	3.79	2.65	1472.
170	5.21	33.77	169	26.70	137.0	3.93	2.88	1473.
180	5.12	33.80	179	26.73	133.9	4.07	3.13	1473.
190	5.05	33.81	189	26.75	132.4	4.20	3.38	1473.
200	4.96	33.81	199	26.76	131.5	4.33	3.64	1473.
210	4.87	33.81	209	26.77	130.6	4.46	3.91	1472.
220	4.74	33.81	218	26.78	129.3	4.59	4.20	1472.
230	4.69	33.82	228	26.80	128.1	4.72	4.49	1472.
240	4.59	33.82	238	26.81	127.1	4.85	4.80	1472.
250	4.48	33.83	248	26.83	125.2	4.98	5.11	1471.
260	4.40	33.84	258	26.84	123.9	5.10	5.44	1471.
270	4.38	33.85	268	26.85	123.1	5.22	5.77	1471.
280	4.34	33.87	278	26.87	121.3	5.35	6.11	1471.
290	4.28	33.87	288	26.88	120.4	5.47	6.46	1471.
300	4.27	33.87	298	26.88	120.4	5.59	6.83	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 69

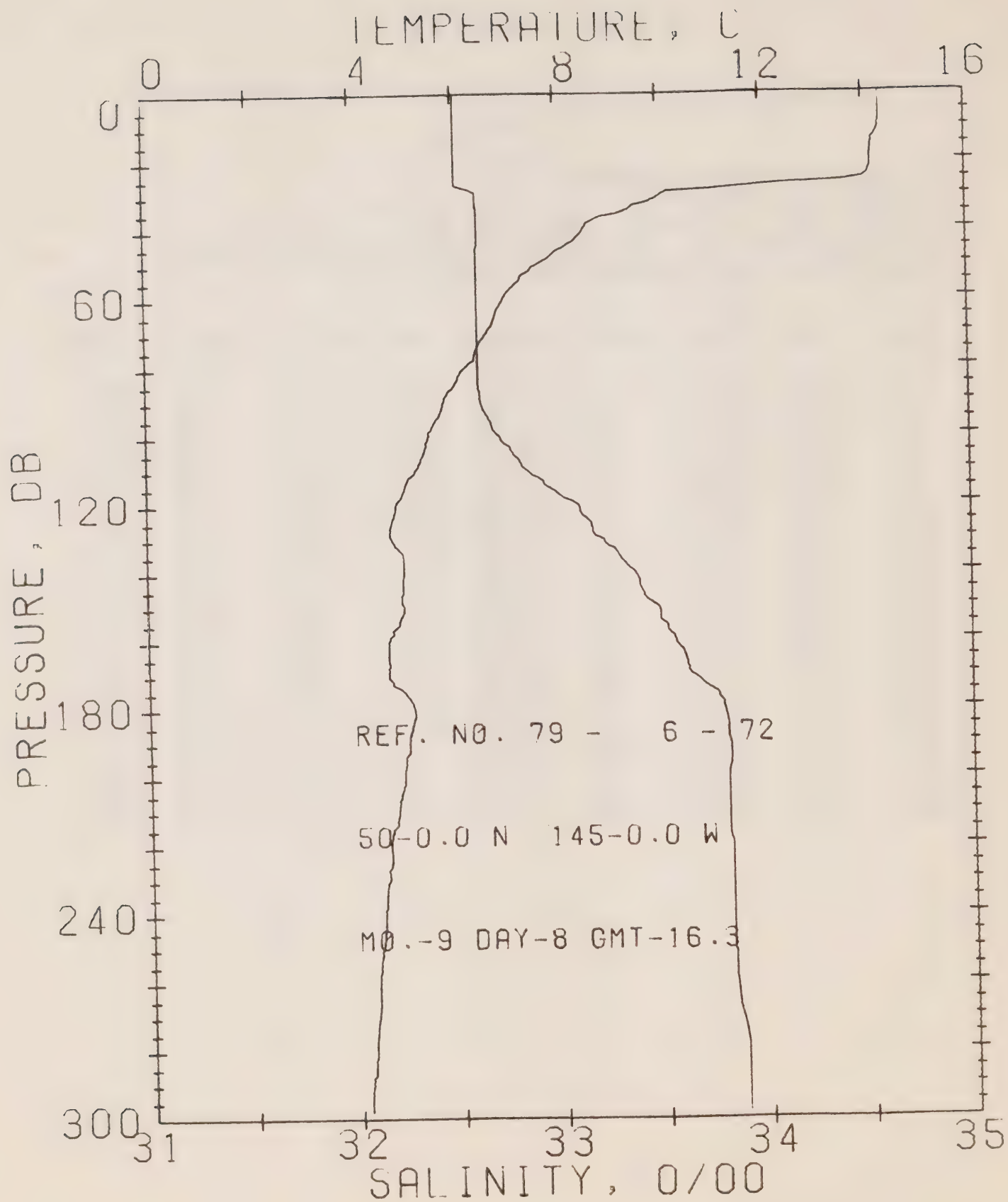
DATE 7/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 258 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.23	32.50	0	24.23	369.7	.00	.00	1502.
10	14.23	32.50	10	24.23	370.0	.37	.02	1502.
20	14.15	32.50	20	24.25	368.7	.74	.08	1502.
30	8.88	32.61	30	25.29	269.2	1.05	.15	1484.
50	6.98	32.62	50	25.57	242.8	1.55	.36	1477.
75	6.05	32.60	75	25.68	233.2	2.15	.74	1473.
100	5.52	32.72	99	25.83	218.3	2.71	1.24	1472.
125	5.15	33.13	124	26.20	183.7	3.21	1.81	1471.
150	5.10	33.55	149	26.54	151.8	3.64	2.42	1472.
175	5.16	33.79	174	26.72	135.0	4.00	3.00	1473.
200	4.96	33.81	199	26.76	131.5	4.33	3.64	1473.
225	4.71	33.82	223	26.79	128.5	4.66	4.34	1472.
250	4.48	33.83	248	26.83	125.2	4.98	5.11	1471.
300	4.27	33.87	298	26.88	120.4	5.59	6.83	1471.
400	4.11	33.99	397	26.99	110.6	6.75	10.95	1472.
500	3.84	34.09	496	27.10	101.0	7.81	15.81	1473.
600	3.57	34.16	595	27.19	93.7	8.77	21.21	1474.
800	3.27	34.27	793	27.30	83.9	10.55	33.83	1476.
1000	2.94	34.36	990	27.40	74.8	12.13	48.29	1478.
1200	2.65	34.44	1188	27.49	67.0	13.55	64.23	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 72

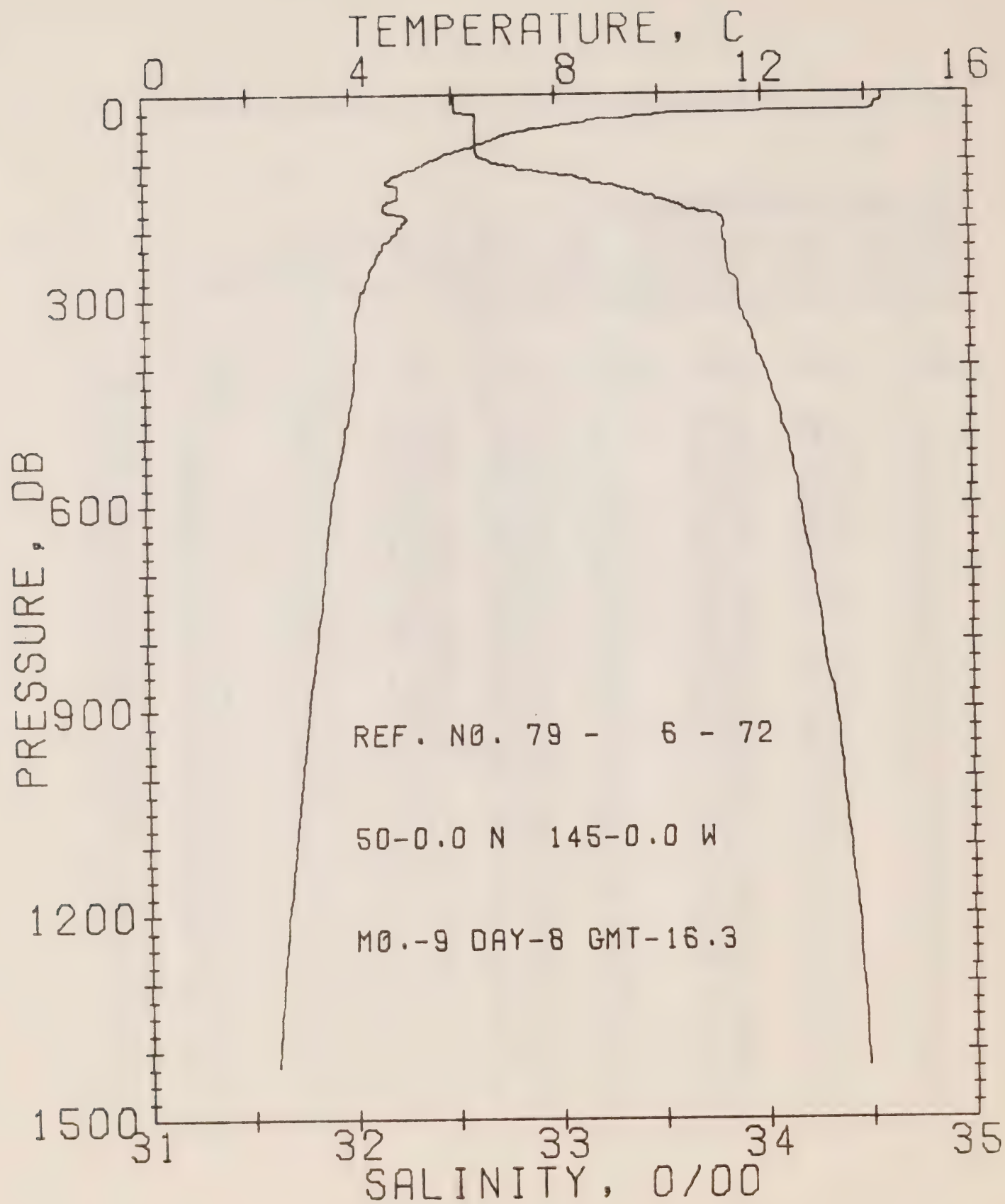
DATE 8/ 9/79

POSITION 50- .0N, 145- .0W GMT 16.3 STATION P

RESULTS OF STP CAST 191 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.34	32.51	0	24.22	371.2	.00	.00	1502.
10	14.33	32.51	10	24.22	371.2	.37	.02	1502.
20	14.16	32.51	20	24.25	368.2	.74	.08	1502.
30	10.06	32.61	30	25.10	287.6	1.09	.16	1488.
40	8.55	32.62	40	25.35	264.2	1.36	.26	1483.
50	7.62	32.61	50	25.48	252.0	1.62	.38	1479.
60	6.95	32.61	60	25.57	243.3	1.87	.52	1477.
70	6.62	32.61	70	25.61	239.3	2.11	.68	1476.
80	6.19	32.61	80	25.67	234.1	2.34	.86	1474.
90	5.77	32.62	89	25.73	228.3	2.58	1.06	1472.
100	5.46	32.71	99	25.83	218.4	2.80	1.28	1471.
110	5.20	32.85	109	25.97	205.1	3.01	1.50	1471.
120	4.81	33.09	119	26.21	183.0	3.21	1.73	1470.
130	4.73	33.21	129	26.31	173.2	3.39	1.96	1470.
140	4.96	33.37	139	26.41	163.8	3.55	2.19	1471.
150	4.95	33.48	149	26.50	155.6	3.72	2.43	1471.
160	4.65	33.56	159	26.60	146.4	3.87	2.67	1470.
170	4.64	33.63	169	26.65	141.2	4.01	2.91	1470.
180	5.13	33.79	179	26.73	134.5	4.15	3.15	1473.
190	5.02	33.82	189	26.76	131.6	4.28	3.40	1473.
200	4.91	33.81	199	26.77	131.0	4.41	3.66	1472.
210	4.78	33.81	209	26.78	129.6	4.54	3.94	1472.
220	4.62	33.82	218	26.81	127.3	4.67	4.22	1471.
230	4.58	33.82	228	26.81	126.9	4.80	4.51	1471.
240	4.48	33.82	238	26.82	125.9	4.92	4.81	1471.
250	4.44	33.82	248	26.83	125.6	5.05	5.13	1471.
260	4.35	33.83	258	26.85	123.7	5.17	5.45	1471.
270	4.31	33.85	268	26.87	121.8	5.30	5.78	1471.
280	4.27	33.88	278	26.89	119.5	5.42	6.12	1471.
290	4.18	33.88	288	26.90	118.7	5.54	6.46	1471.
300	4.15	33.88	298	26.90	118.4	5.65	6.82	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 72

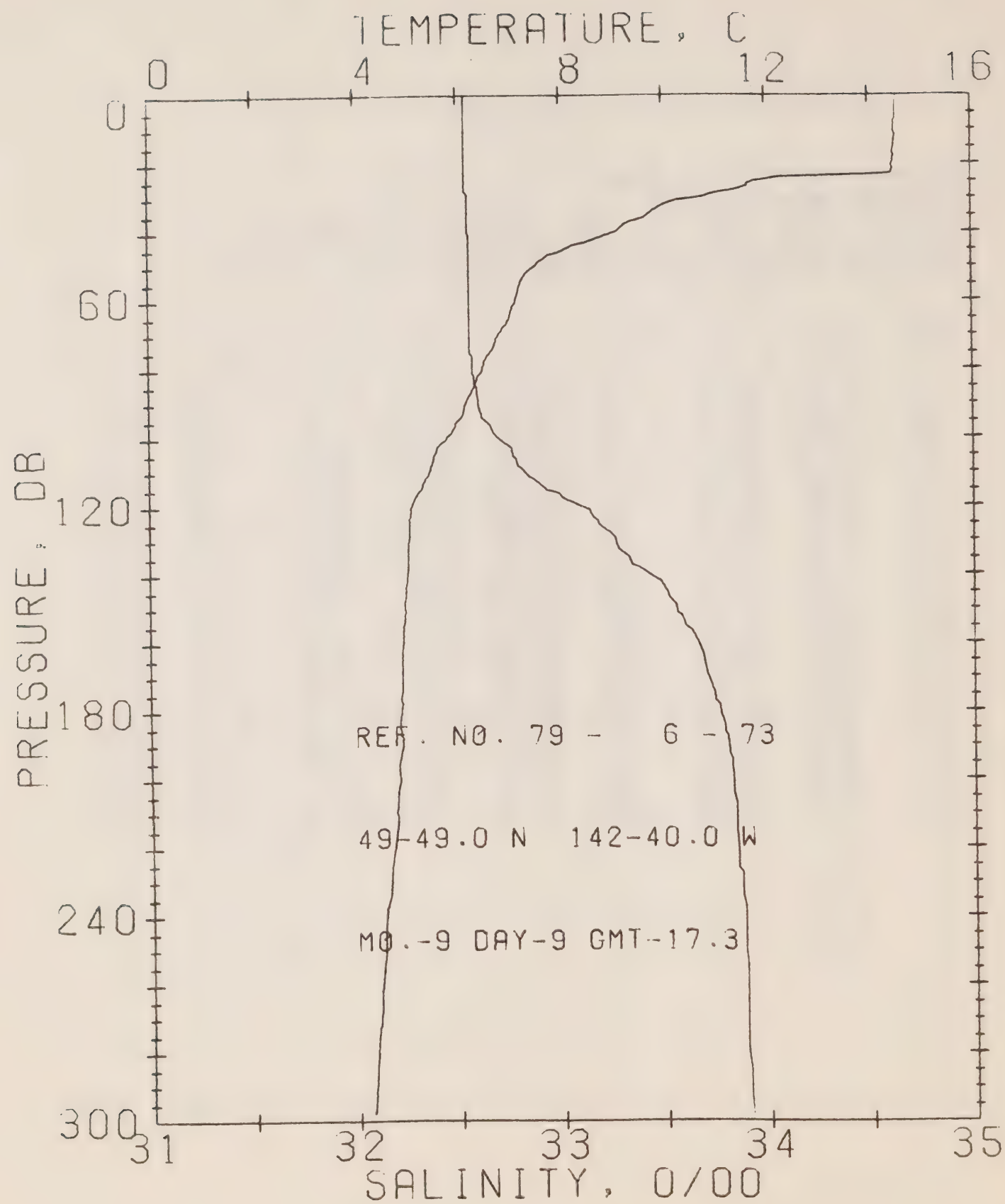
DATE 8/ 9/79

POSITION 50- .0N, 145- .0W GMT 16.3 STATION P

RESULTS OF STP CAST 283 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.34	32.51	0	24.22	371.2	.00	.00	1502.
10	14.33	32.51	10	24.22	371.2	.37	.02	1502.
20	14.16	32.51	20	24.25	368.2	.74	.08	1502.
30	10.06	32.61	30	25.10	287.6	1.09	.16	1488.
50	7.62	32.61	50	25.48	252.0	1.62	.38	1479.
75	6.39	32.61	75	25.64	236.5	2.23	.77	1475.
100	5.46	32.71	99	25.83	218.4	2.80	1.28	1471.
125	4.71	33.15	124	26.27	177.5	3.30	1.84	1469.
150	4.95	33.48	149	26.50	155.6	3.72	2.43	1471.
175	4.97	33.76	174	26.72	135.1	4.08	3.03	1472.
200	4.91	33.81	199	26.77	131.0	4.41	3.66	1472.
225	4.61	33.82	223	26.81	127.2	4.73	4.36	1471.
250	4.44	33.82	248	26.83	125.6	5.05	5.13	1471.
300	4.15	33.88	298	26.90	118.4	5.65	6.82	1471.
400	4.04	34.00	397	27.01	109.2	6.79	10.88	1472.
500	3.83	34.10	496	27.11	99.9	7.84	15.68	1473.
600	3.55	34.16	595	27.19	93.3	8.81	21.08	1474.
800	3.26	34.27	793	27.30	83.5	10.57	33.64	1476.
1000	2.94	34.36	990	27.41	74.5	12.14	47.99	1478.
1200	2.66	34.44	1188	27.49	67.4	13.56	63.91	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 73

DATE 9/ 9/79

POSITION 49-49.0N, 142-40.0W

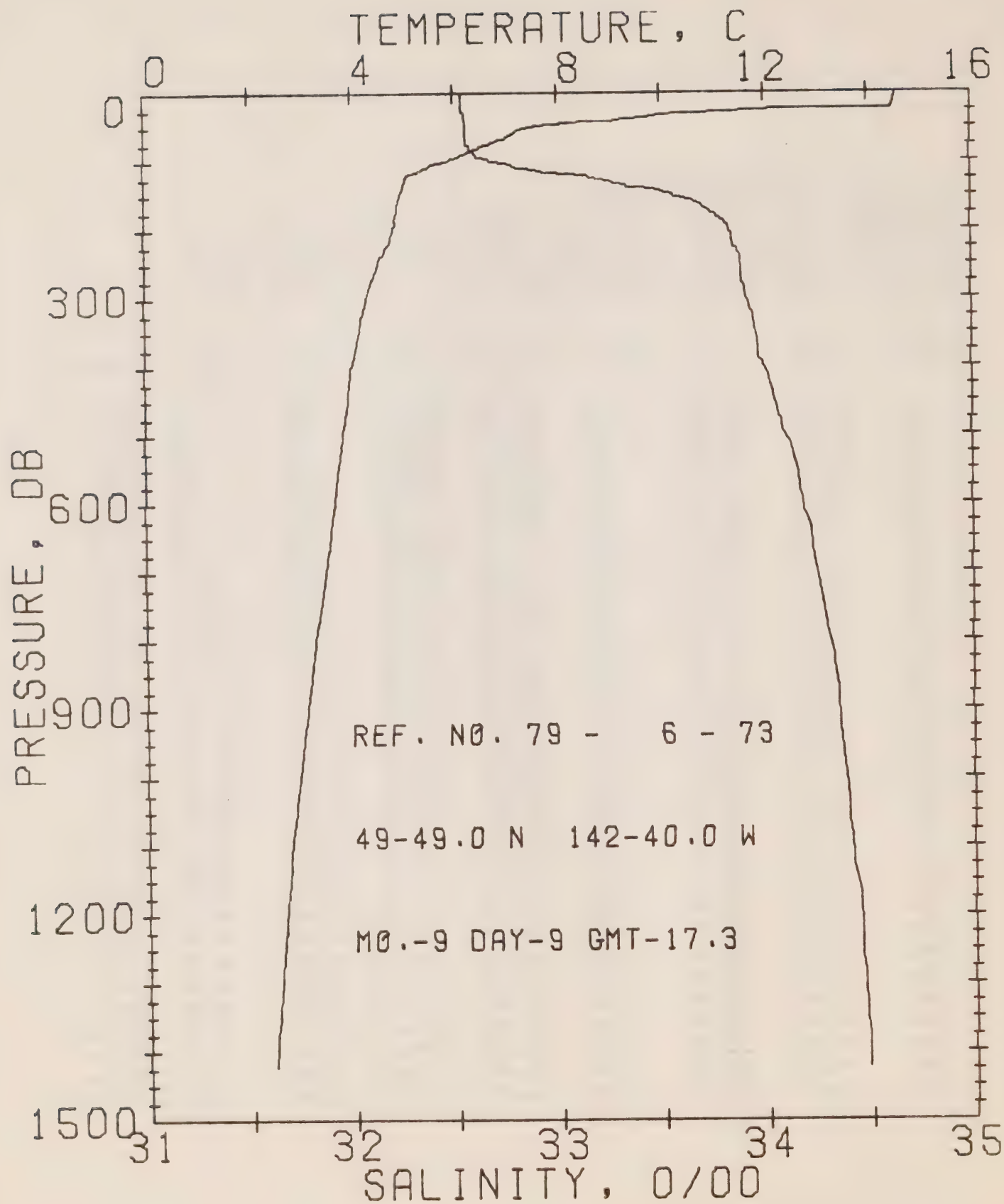
GMT 17.3

STATION 12

RESULTS OF STP CAST 169 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.56	32.54	0	24.19	373.4	.00	.00	1503.
10	14.50	32.54	10	24.21	372.5	.37	.02	1503.
20	14.48	32.54	20	24.21	372.3	.75	.08	1503.
30	10.77	32.55	30	24.93	303.6	1.08	.16	1491.
40	9.11	32.55	40	25.21	277.5	1.37	.26	1485.
50	7.51	32.56	50	25.45	254.3	1.63	.38	1479.
60	7.13	32.56	60	25.51	249.4	1.88	.52	1477.
70	6.81	32.56	70	25.55	245.3	2.13	.69	1476.
80	6.48	32.57	80	25.60	240.7	2.37	.87	1475.
90	6.17	32.60	89	25.66	234.8	2.61	1.08	1474.
100	5.79	32.69	99	25.78	223.7	2.84	1.30	1473.
110	5.44	32.82	109	25.93	209.6	3.06	1.53	1472.
120	5.10	33.09	119	26.18	186.1	3.26	1.77	1471.
130	5.02	33.26	129	26.32	172.3	3.43	1.99	1471.
140	4.99	33.43	139	26.45	159.9	3.60	2.22	1471.
150	4.94	33.55	149	26.56	149.9	3.76	2.45	1471.
160	4.90	33.66	159	26.65	141.7	3.90	2.68	1471.
170	4.87	33.70	169	26.69	138.1	4.04	2.92	1472.
180	4.86	33.77	179	26.74	133.2	4.18	3.16	1472.
190	4.87	33.81	189	26.77	130.7	4.31	3.41	1472.
200	4.82	33.83	199	26.79	128.5	4.44	3.66	1472.
210	4.76	33.84	209	26.81	127.2	4.57	3.93	1472.
220	4.70	33.85	218	26.82	126.0	4.69	4.21	1472.
230	4.63	33.87	228	26.84	123.7	4.82	4.50	1472.
240	4.53	33.88	238	26.86	121.9	4.94	4.79	1471.
250	4.50	33.88	248	26.87	121.7	5.06	5.09	1472.
260	4.45	33.89	258	26.88	120.6	5.18	5.41	1472.
270	4.41	33.89	268	26.88	120.2	5.30	5.73	1471.
280	4.34	33.89	278	26.89	119.4	5.42	6.07	1471.
290	4.31	33.90	288	26.90	118.5	5.54	6.41	1471.
300	4.27	33.91	298	26.91	117.5	5.66	6.77	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 73

DATE 9/ 9/79

POSITION 49-49.0N, 142-40.0W

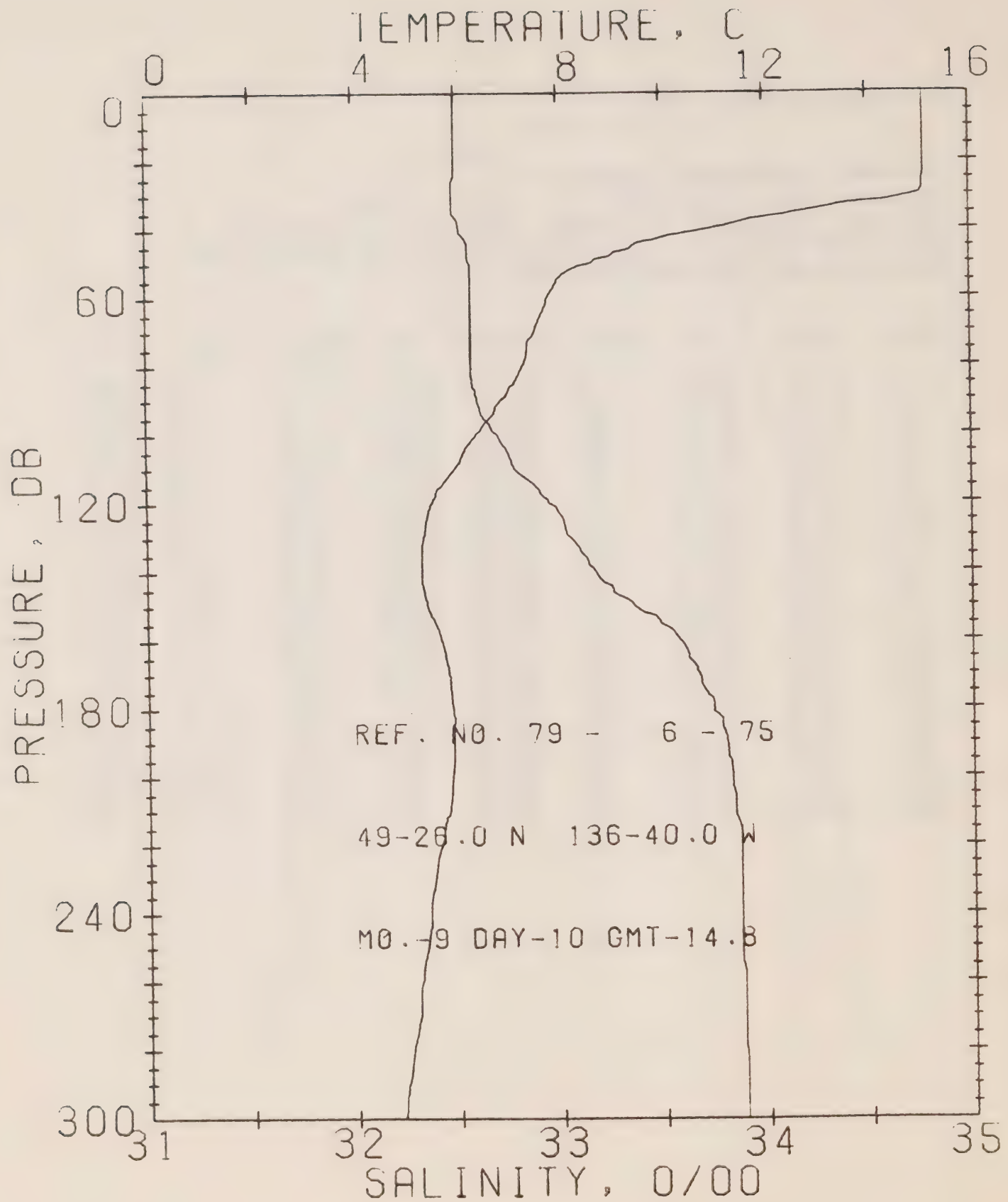
GMT 17.3

STATION 12

RESULTS OF STP CAST 249 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.56	32.54	0	24.19	373.4	.00	.00	1503.
10	14.50	32.54	10	24.21	372.5	.37	.02	1503.
20	14.48	32.54	20	24.21	372.3	.75	.08	1503.
30	10.77	32.55	30	24.93	303.6	1.08	.16	1491.
50	7.51	32.56	50	25.45	254.3	1.63	.38	1479.
75	6.64	32.56	75	25.57	243.3	2.25	.78	1476.
100	5.79	32.69	99	25.78	223.7	2.84	1.30	1473.
125	5.04	33.18	124	26.25	178.8	3.35	1.88	1471.
150	4.94	33.55	149	26.56	149.9	3.76	2.45	1471.
175	4.87	33.73	174	26.71	135.8	4.11	3.04	1472.
200	4.82	33.83	199	26.79	128.5	4.44	3.66	1472.
225	4.65	33.85	223	26.83	125.3	4.76	4.35	1472.
250	4.50	33.88	248	26.87	121.7	5.06	5.09	1472.
300	4.27	33.91	298	26.91	117.5	5.66	6.77	1471.
400	3.96	33.99	397	27.01	109.0	6.79	10.80	1472.
500	3.79	34.09	496	27.11	100.7	7.84	15.60	1473.
600	3.61	34.17	595	27.19	93.3	8.80	21.00	1474.
800	3.23	34.30	793	27.33	81.0	10.54	33.37	1476.
1000	2.90	34.38	990	27.42	73.3	12.08	47.44	1478.
1200	2.63	34.45	1188	27.50	66.3	13.48	63.10	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 75

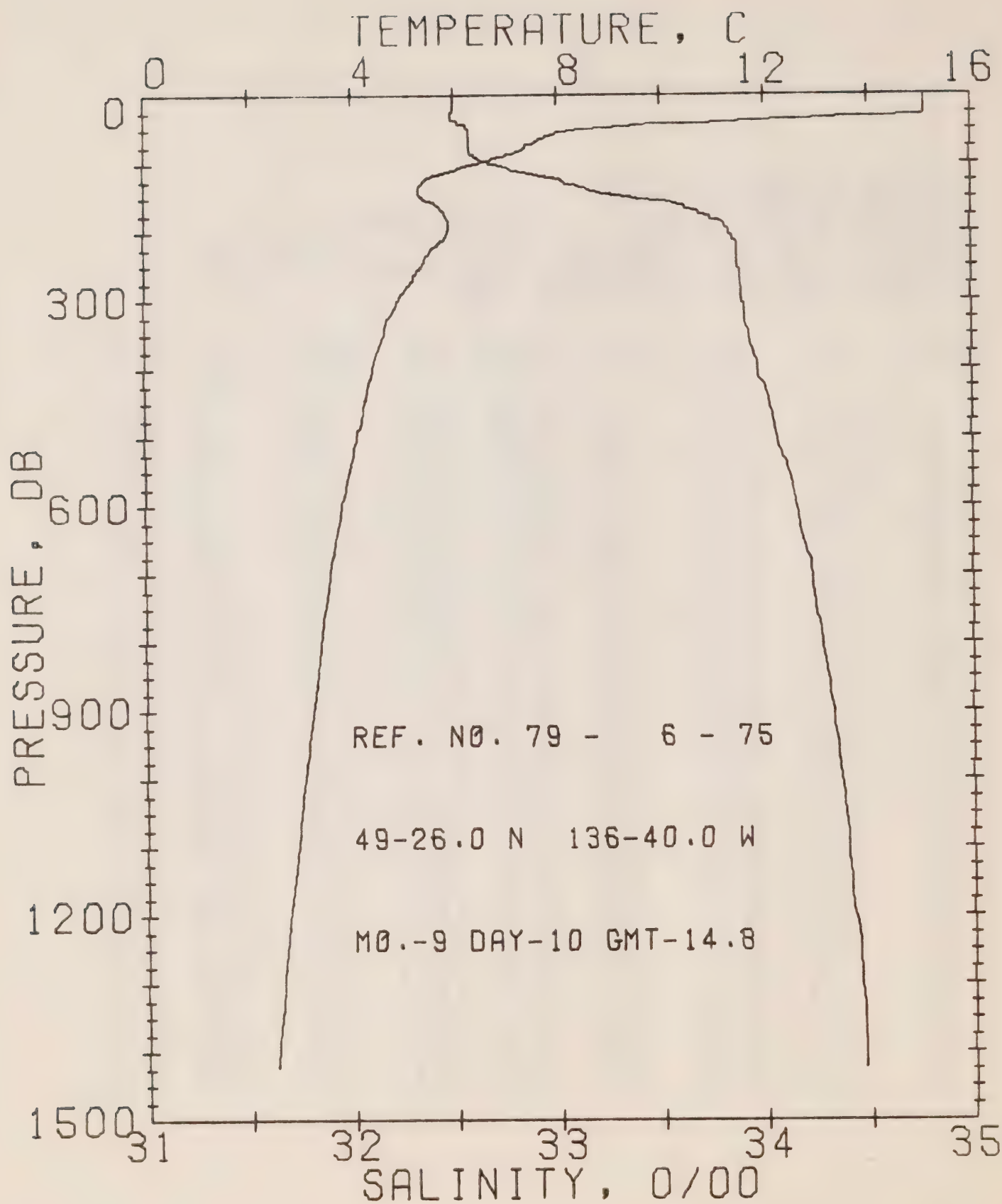
DATE 10/ 9/79

POSITION 49-26.0N, 136-40.0W GMT 14.8 STATION 9

RESULTS OF STP CAST 173 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.11	32.50	0	24.05	387.5	.00	.00	1505.
10	15.12	32.50	10	24.04	388.0	.39	.02	1505.
20	15.12	32.50	20	24.04	388.3	.78	.08	1505.
30	15.03	32.49	30	24.06	387.4	1.16	.18	1505.
40	10.96	32.52	40	24.88	309.2	1.51	.30	1491.
50	8.64	32.57	50	25.30	269.3	1.79	.43	1483.
60	7.79	32.57	60	25.42	257.4	2.05	.58	1480.
70	7.53	32.57	70	25.46	254.0	2.31	.75	1479.
80	7.28	32.57	80	25.49	250.9	2.56	.94	1478.
90	6.86	32.60	90	25.57	243.3	2.81	1.15	1477.
100	6.38	32.70	99	25.71	230.0	3.05	1.38	1475.
110	5.95	32.78	109	25.83	218.9	3.27	1.62	1474.
120	5.50	32.95	119	26.02	201.1	3.48	1.87	1472.
130	5.34	33.05	129	26.12	191.9	3.68	2.12	1472.
140	5.30	33.17	139	26.22	182.6	3.86	2.37	1472.
150	5.42	33.36	149	26.35	169.8	4.04	2.64	1473.
160	5.67	33.58	159	26.50	156.4	4.20	2.89	1474.
170	5.82	33.67	169	26.55	151.6	4.36	3.15	1475.
180	5.89	33.74	179	26.59	147.4	4.51	3.42	1476.
190	5.89	33.80	189	26.64	142.8	4.65	3.69	1476.
200	5.87	33.83	199	26.67	140.7	4.79	3.97	1476.
210	5.79	33.84	209	26.68	139.1	4.93	4.26	1476.
220	5.63	33.87	219	26.73	135.0	5.07	4.56	1476.
230	5.50	33.87	228	26.74	133.6	5.20	4.87	1475.
240	5.41	33.87	238	26.76	132.7	5.34	5.19	1475.
250	5.34	33.87	248	26.76	131.9	5.47	5.52	1475.
260	5.23	33.88	258	26.78	130.0	5.60	5.86	1475.
270	5.19	33.88	268	26.79	129.7	5.73	6.21	1475.
280	5.07	33.88	278	26.81	128.1	5.86	6.57	1474.
290	4.95	33.89	288	26.82	126.4	5.98	6.94	1474.
300	4.87	33.89	298	26.83	125.6	6.11	7.32	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 75

DATE 10/ 9/79

POSITION 49-26.0N, 136-40.0W

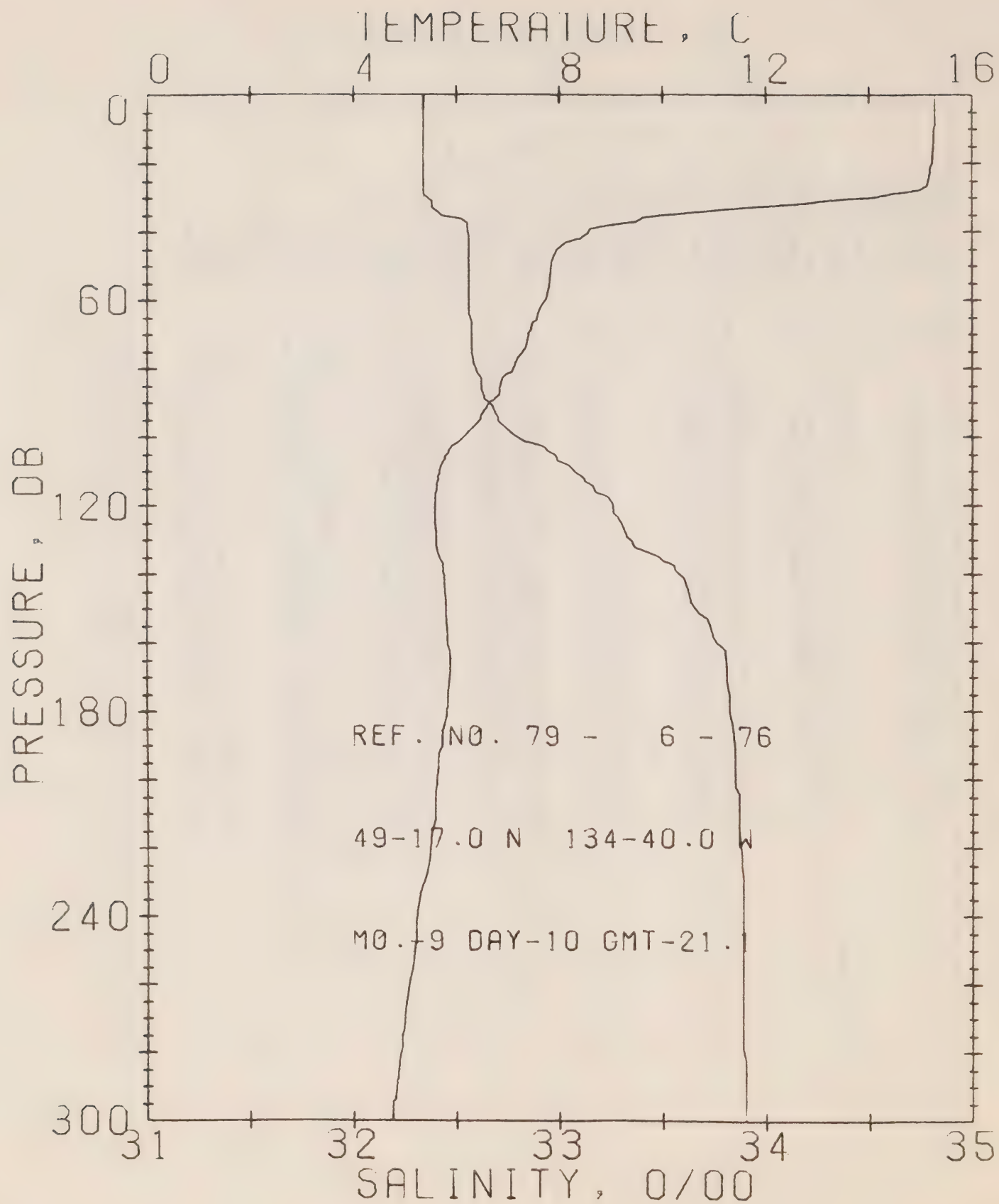
GMT 14.8

STATION 9

RESULTS OF STP CAST 262 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.11	32.50	0	24.05	387.5	.00	.00	1505.
10	15.12	32.50	10	24.04	388.0	.39	.02	1505.
20	15.12	32.50	20	24.04	388.3	.78	.08	1505.
30	15.03	32.49	30	24.06	387.4	1.16	.18	1505.
50	8.64	32.57	50	25.30	269.3	1.79	.43	1483.
75	7.38	32.57	75	25.48	252.1	2.44	.84	1479.
100	6.38	32.70	99	25.71	230.0	3.05	1.38	1475.
125	5.38	33.02	124	26.09	194.5	3.58	1.99	1472.
150	5.42	33.36	149	26.35	169.8	4.04	2.64	1473.
175	5.85	33.70	174	26.57	149.8	4.43	3.28	1476.
200	5.87	33.83	199	26.67	140.7	4.79	3.97	1476.
225	5.53	33.87	223	26.74	133.9	5.14	4.72	1475.
250	5.34	33.87	248	26.76	131.9	5.47	5.52	1475.
300	4.87	33.89	298	26.83	125.6	6.11	7.32	1474.
400	4.37	33.96	397	26.94	115.7	7.32	11.61	1474.
500	4.05	34.05	496	27.05	106.5	8.42	16.68	1474.
600	3.76	34.14	595	27.15	97.2	9.44	22.36	1475.
800	3.33	34.27	793	27.29	84.7	11.25	35.25	1476.
1000	3.01	34.36	991	27.39	75.8	12.85	49.94	1478.
1200	2.71	34.42	1188	27.47	69.1	14.31	66.20	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 76

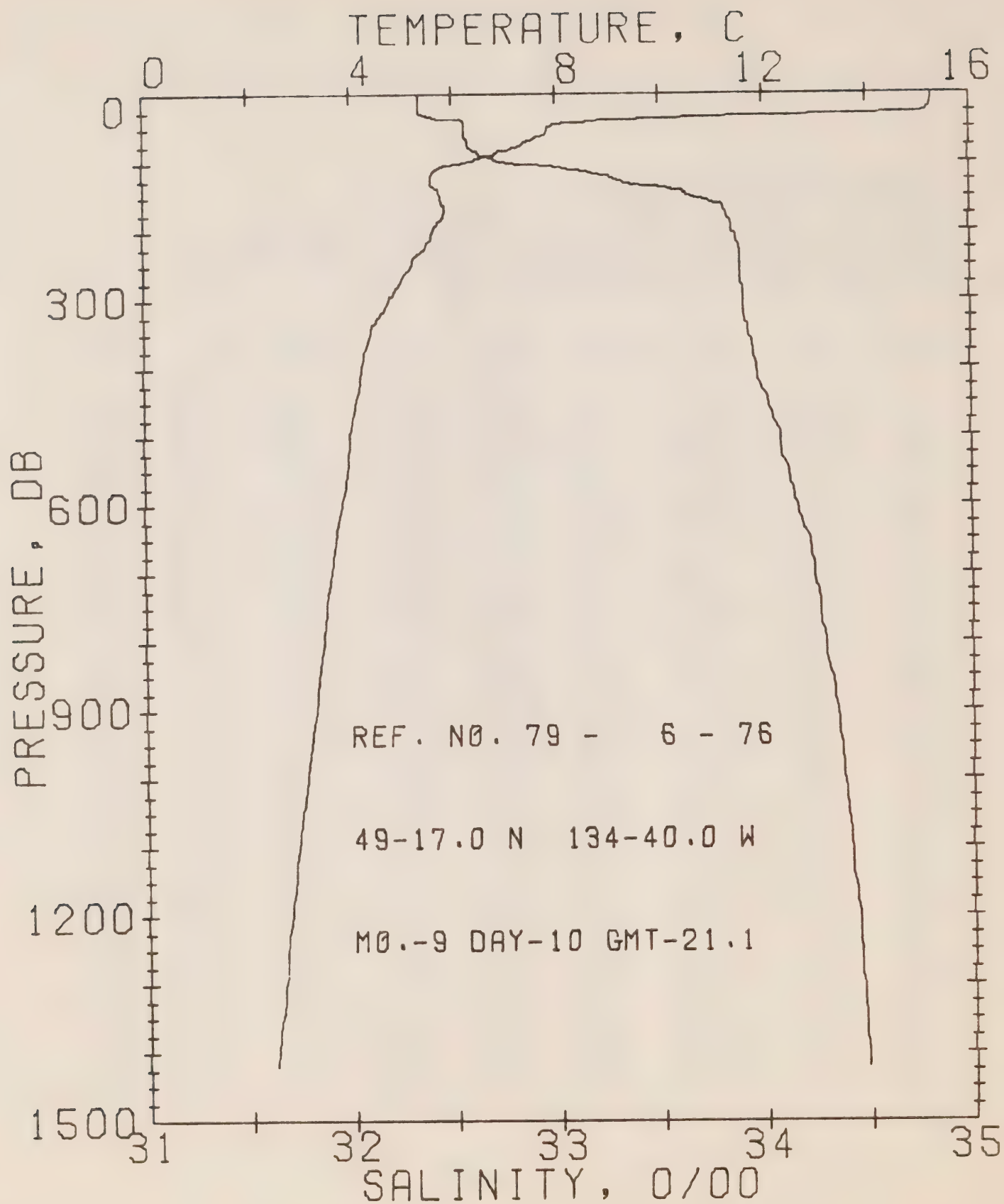
DATE 10/ 9/79

POSITION 49-17.0N, 134-40.0W GMT 21.1 STATION 8

RESULTS OF STP CAST 155 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.29	32.34	0	23.88	403.0	.00	.00	1505.
10	15.26	32.34	10	23.89	402.7	.40	.02	1505.
20	15.22	32.34	20	23.90	402.0	.81	.08	1505.
30	14.05	32.36	30	24.16	377.2	1.20	.18	1502.
40	8.57	32.55	40	25.30	269.2	1.51	.29	1483.
50	7.84	32.56	50	25.41	258.8	1.77	.41	1480.
60	7.73	32.56	60	25.42	257.4	2.03	.56	1480.
70	7.39	32.57	70	25.48	252.2	2.29	.73	1479.
80	7.09	32.59	80	25.54	246.6	2.54	.92	1478.
90	6.65	32.66	89	25.65	236.2	2.78	1.13	1476.
100	6.13	32.80	99	25.82	219.5	3.01	1.35	1474.
110	5.66	33.07	109	26.09	193.8	3.21	1.57	1473.
120	5.58	33.26	119	26.25	179.2	3.40	1.78	1473.
130	5.61	33.35	129	26.32	172.6	3.58	2.01	1473.
140	5.73	33.58	139	26.49	156.9	3.74	2.24	1474.
150	5.79	33.66	149	26.54	152.0	3.89	2.46	1475.
160	5.81	33.76	159	26.62	144.7	4.04	2.70	1475.
170	5.86	33.81	169	26.65	141.6	4.18	2.94	1476.
180	5.78	33.82	179	26.67	140.1	4.32	3.19	1476.
190	5.71	33.85	189	26.70	137.3	4.46	3.45	1475.
200	5.59	33.85	199	26.72	135.8	4.60	3.72	1475.
210	5.56	33.87	209	26.74	134.1	4.73	4.00	1475.
220	5.47	33.88	219	26.75	132.7	4.87	4.29	1475.
230	5.35	33.89	228	26.78	130.4	5.00	4.60	1475.
240	5.22	33.89	238	26.79	128.9	5.13	4.91	1474.
250	5.17	33.89	248	26.80	128.5	5.26	5.23	1474.
260	5.06	33.89	258	26.81	127.3	5.39	5.56	1474.
270	4.97	33.89	268	26.82	126.4	5.51	5.90	1474.
280	4.91	33.89	278	26.83	125.6	5.64	6.26	1474.
290	4.81	33.90	288	26.85	124.1	5.76	6.62	1474.
300	4.74	33.90	298	26.86	123.4	5.89	6.99	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 76

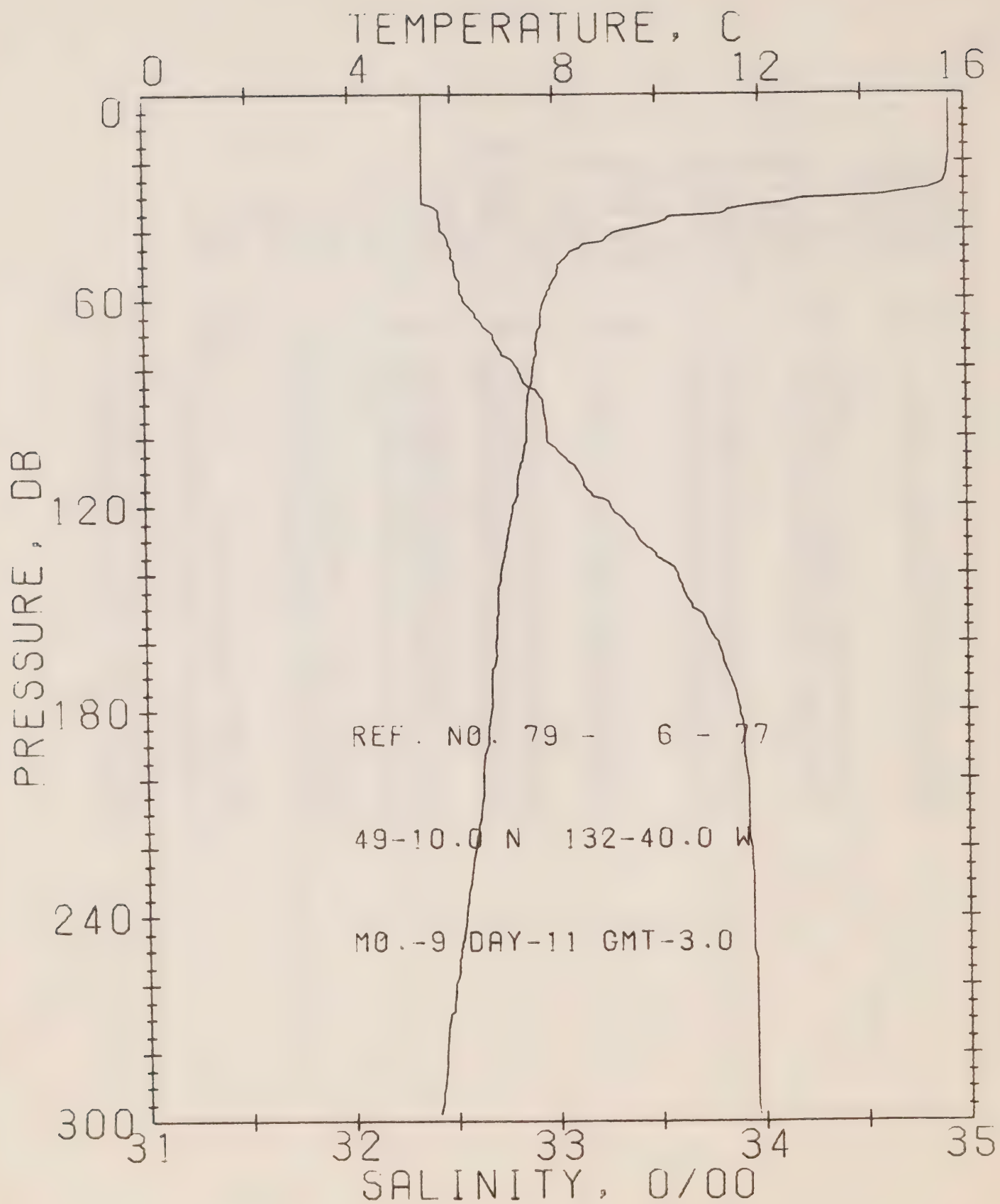
DATE 10/ 9/79

POSITION 49-17.0N, 134-40.0W GMT 21.1 STATION 8

RESULTS OF STP CAST 282 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.29	32.34	0	23.88	403.0	.00	.00	1505.
10	15.26	32.34	10	23.89	402.7	.40	.02	1505.
20	15.22	32.34	20	23.90	402.0	.81	.08	1505.
30	14.05	32.36	30	24.16	377.2	1.20	.18	1502.
50	7.84	32.56	50	25.41	258.8	1.77	.41	1480.
75	7.27	32.57	75	25.49	250.7	2.41	.82	1478.
100	6.13	32.80	99	25.82	219.5	3.01	1.35	1474.
125	5.58	33.30	124	26.29	175.9	3.49	1.90	1473.
150	5.79	33.66	149	26.54	152.0	3.89	2.46	1475.
175	5.80	33.82	174	26.67	140.3	4.25	3.06	1476.
200	5.59	33.85	199	26.72	135.8	4.60	3.72	1475.
225	5.44	33.88	223	26.76	132.1	4.93	4.44	1475.
250	5.17	33.89	248	26.80	128.5	5.26	5.23	1474.
300	4.74	33.90	298	26.86	123.4	5.89	6.99	1473.
400	4.19	33.96	397	26.96	113.8	7.07	11.19	1473.
500	3.95	34.07	496	27.07	103.8	8.16	16.18	1474.
600	3.78	34.15	595	27.16	96.8	9.17	21.83	1475.
800	3.40	34.29	793	27.30	83.8	10.95	34.55	1476.
1000	3.06	34.37	990	27.40	75.3	12.54	49.07	1478.
1200	2.73	34.44	1188	27.48	67.9	13.97	65.09	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 77

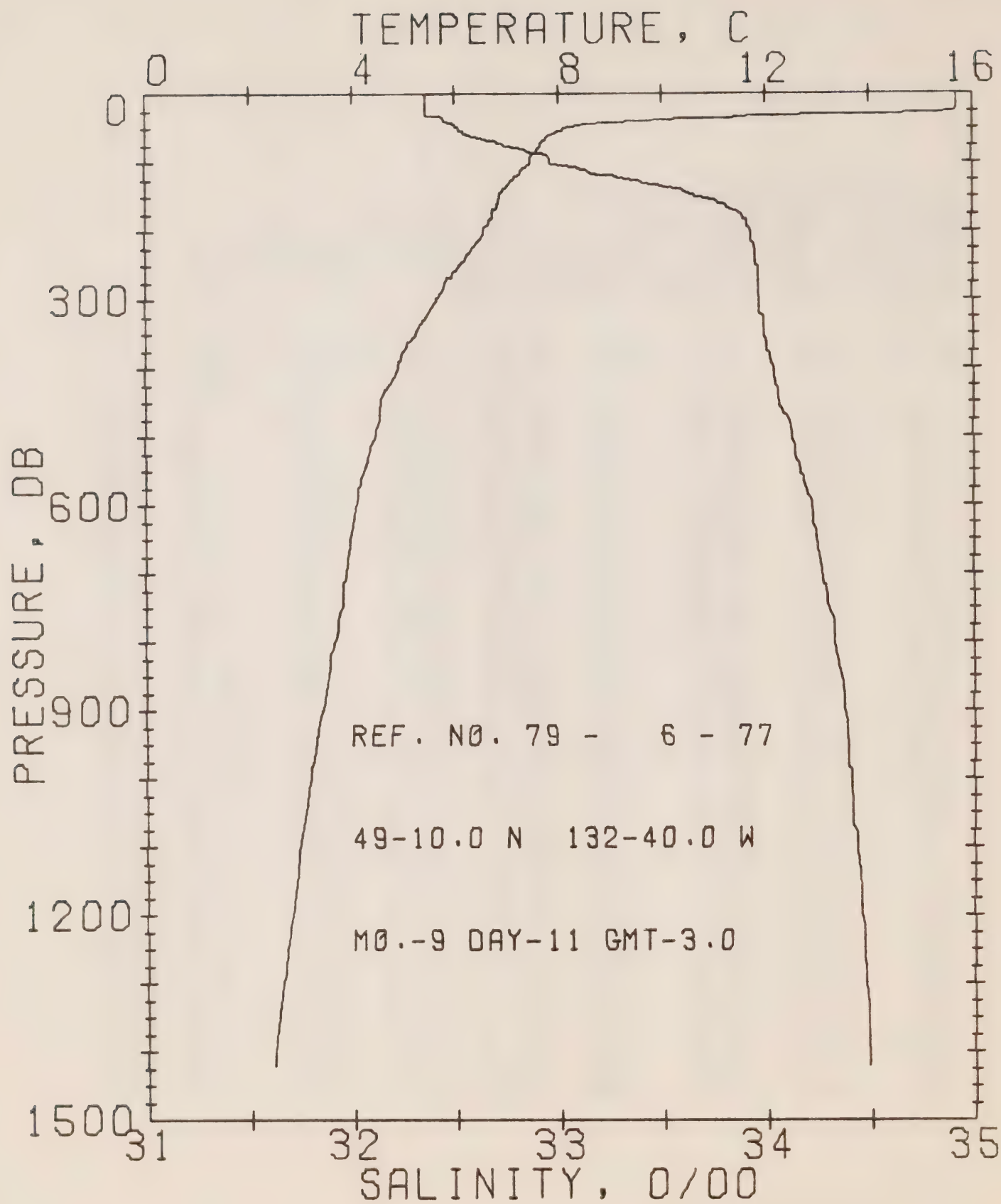
DATE 11/ 9/79

POSITION 49-10.0N, 132-40.0W GMT 3.0 STATION 7

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.71	32.36	0	23.81	410.3	.00	.00	1506.
10	15.71	32.36	10	23.81	410.5	.41	.02	1507.
20	15.69	32.36	20	23.81	410.4	.82	.08	1507.
30	14.38	32.36	30	24.09	383.7	1.23	.19	1503.
40	9.30	32.45	40	25.10	287.8	1.55	.30	1485.
50	8.09	32.51	50	25.33	265.9	1.82	.43	1481.
60	7.81	32.55	60	25.40	259.2	2.09	.57	1480.
70	7.66	32.70	70	25.54	246.1	2.34	.74	1480.
80	7.58	32.82	80	25.65	236.3	2.58	.93	1480.
90	7.45	32.94	90	25.76	225.6	2.81	1.13	1480.
100	7.44	32.96	99	25.78	224.3	3.04	1.34	1480.
110	7.29	33.11	109	25.91	211.2	3.25	1.58	1479.
120	7.14	33.27	119	26.06	197.5	3.46	1.82	1479.
130	7.03	33.41	129	26.19	185.8	3.65	2.06	1479.
140	6.92	33.59	139	26.34	171.1	3.83	2.31	1479.
150	6.85	33.66	149	26.41	165.1	4.00	2.56	1479.
160	6.81	33.79	159	26.51	155.0	4.16	2.81	1479.
170	6.72	33.84	169	26.57	150.3	4.31	3.07	1479.
180	6.70	33.89	179	26.61	146.4	4.46	3.33	1479.
190	6.63	33.91	189	26.63	144.2	4.60	3.60	1479.
200	6.54	33.92	199	26.66	142.0	4.75	3.89	1479.
210	6.48	33.93	209	26.67	141.0	4.89	4.18	1479.
220	6.37	33.94	219	26.69	139.0	5.03	4.49	1479.
230	6.28	33.95	228	26.71	137.2	5.17	4.81	1479.
240	6.18	33.95	238	26.72	136.1	5.30	5.13	1478.
250	6.05	33.95	248	26.74	134.6	5.44	5.47	1478.
260	5.96	33.96	258	26.76	132.9	5.57	5.82	1478.
270	5.83	33.96	268	26.78	131.4	5.70	6.18	1477.
280	5.76	33.96	278	26.78	130.7	5.84	6.54	1477.
290	5.71	33.96	288	26.79	130.1	5.97	6.92	1477.
300	5.62	33.97	298	26.81	128.5	6.10	7.31	1477.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 77

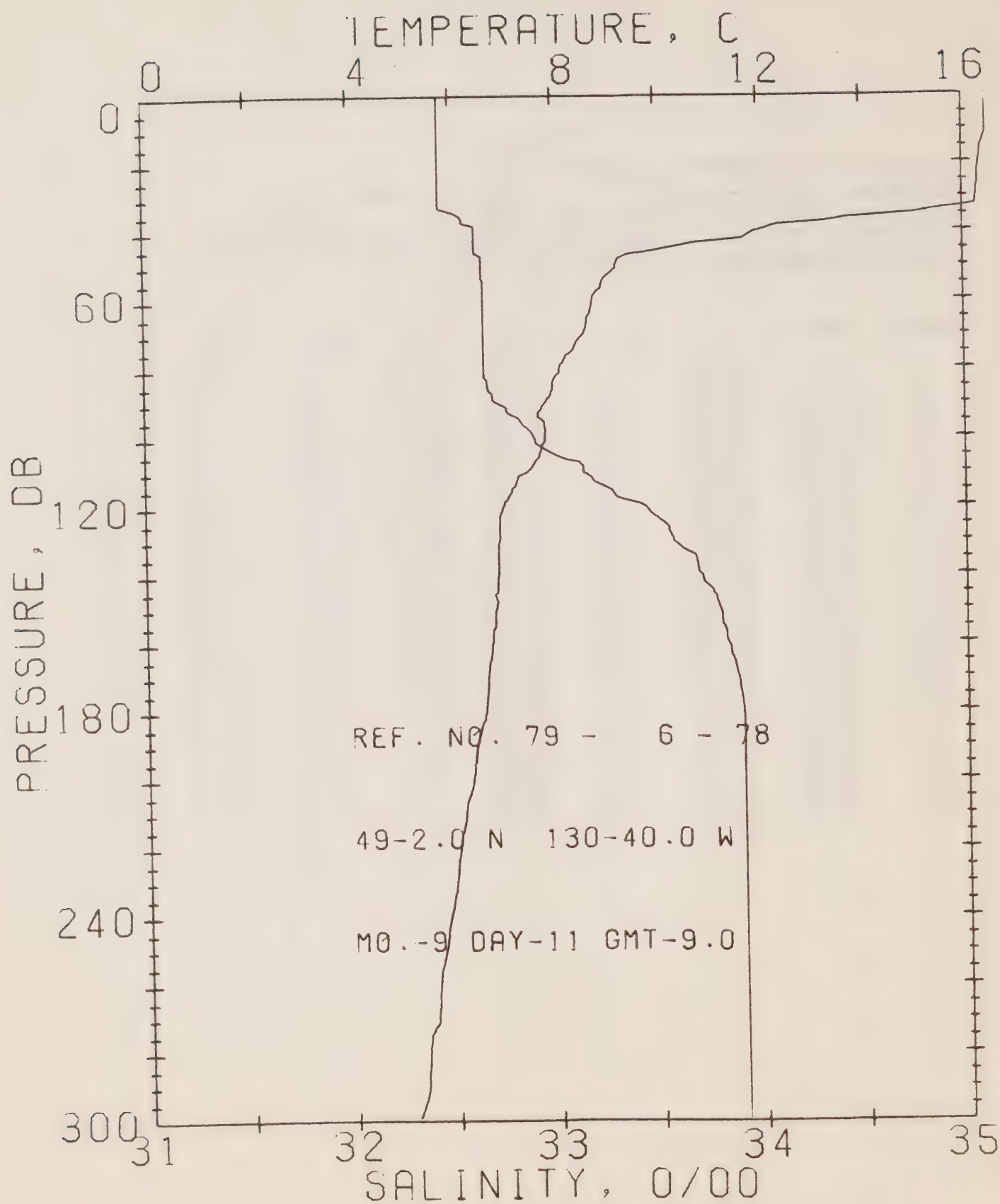
DATE 11/ 9/79

POSITION 49-10.0N, 132-40.0W GMT 3.0 STATION 7

RESULTS OF STP CAST 324 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.71	32.36	0	23.81	410.3	.00	.00	1506.
10	15.71	32.36	10	23.81	410.5	.41	.02	1507.
20	15.69	32.36	20	23.81	410.4	.82	.08	1507.
30	14.38	32.36	30	24.09	383.7	1.23	.19	1503.
50	8.09	32.51	50	25.33	265.9	1.82	.43	1481.
75	7.65	32.74	75	25.57	243.1	2.46	.83	1480.
100	7.44	32.96	99	25.78	224.3	3.04	1.34	1480.
125	7.09	33.35	124	26.13	190.9	3.56	1.94	1479.
150	6.85	33.66	149	26.41	165.1	4.00	2.56	1479.
175	6.71	33.87	174	26.59	147.8	4.39	3.20	1479.
200	6.54	33.92	199	26.66	142.0	4.75	3.89	1479.
225	6.32	33.94	223	26.70	138.1	5.10	4.65	1479.
250	6.05	33.95	248	26.74	134.6	5.44	5.47	1478.
300	5.62	33.97	298	26.81	128.5	6.10	7.31	1477.
400	4.87	34.03	397	26.94	116.1	7.32	11.67	1476.
500	4.41	34.12	496	27.07	105.1	8.43	16.73	1476.
600	4.03	34.21	595	27.18	95.1	9.43	22.35	1476.
800	3.61	34.32	793	27.31	83.9	11.22	35.11	1477.
1000	3.13	34.40	991	27.42	74.1	12.79	49.43	1479.
1200	2.78	34.45	1188	27.49	67.7	14.20	65.22	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 78

DATE 11/ 9/79

POSITION 49- 2.0N, 130-40.0W

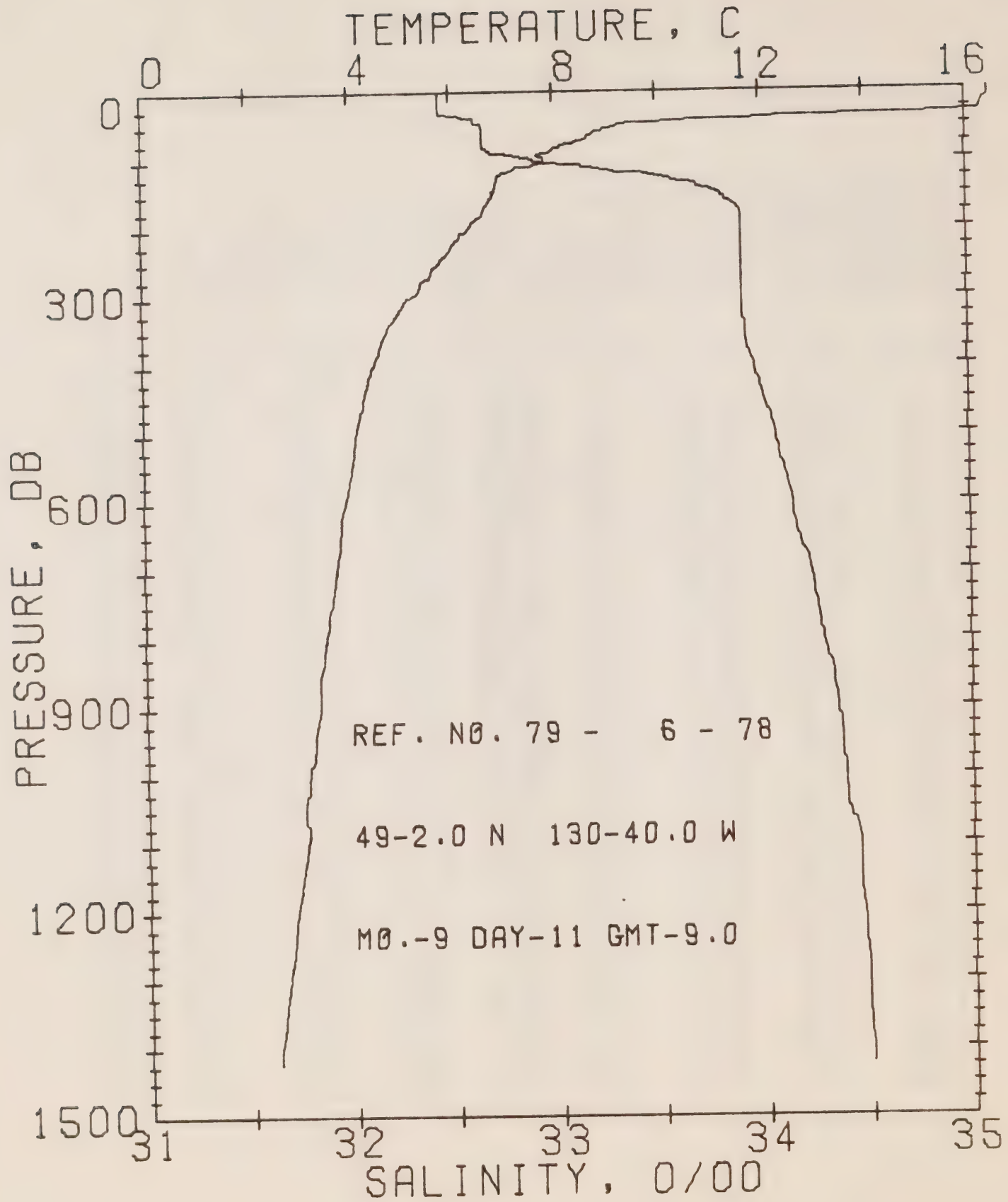
GMT 9.0

STATION 6

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	16.45	32.45	0	23.71	419.6	.00	.00	1509.
10	16.45	32.45	10	23.71	419.9	.42	.02	1509.
20	16.31	32.45	20	23.74	417.1	.84	.09	1509.
30	16.26	32.45	30	23.75	416.3	1.26	.19	1509.
40	11.92	32.62	40	24.78	318.5	1.63	.32	1495.
50	9.23	32.65	50	25.27	272.1	1.92	.46	1485.
60	8.77	32.66	60	25.35	264.7	2.19	.61	1484.
70	8.58	32.66	70	25.38	262.1	2.45	.78	1483.
80	8.11	32.66	80	25.45	255.5	2.71	.98	1482.
90	7.80	32.73	90	25.55	246.1	2.96	1.20	1481.
100	7.81	32.91	99	25.68	233.0	3.20	1.43	1481.
110	7.46	33.14	109	25.91	211.3	3.42	1.67	1480.
120	6.99	33.45	119	26.22	182.1	3.62	1.90	1479.
130	6.90	33.57	129	26.33	172.2	3.80	2.12	1479.
140	6.87	33.71	139	26.44	161.5	3.96	2.35	1479.
150	6.82	33.80	149	26.52	154.3	4.12	2.58	1479.
160	6.74	33.84	159	26.56	150.4	4.27	2.82	1479.
170	6.65	33.89	169	26.61	146.0	4.42	3.07	1479.
180	6.60	33.91	179	26.64	143.8	4.57	3.33	1479.
190	6.41	33.91	189	26.66	141.3	4.71	3.60	1478.
200	6.31	33.91	199	26.67	140.2	4.85	3.88	1478.
210	6.17	33.91	209	26.69	138.5	4.99	4.17	1478.
220	6.05	33.91	219	26.71	137.1	5.13	4.47	1477.
230	5.97	33.91	228	26.72	136.3	5.26	4.79	1477.
240	5.83	33.91	238	26.74	134.7	5.40	5.11	1477.
250	5.74	33.91	248	26.75	133.8	5.53	5.45	1477.
260	5.62	33.91	258	26.76	132.4	5.67	5.79	1476.
270	5.56	33.91	268	26.77	131.8	5.80	6.15	1476.
280	5.39	33.91	278	26.79	129.9	5.93	6.52	1476.
290	5.35	33.91	288	26.79	129.5	6.06	6.89	1476.
300	5.16	33.91	298	26.82	127.4	6.19	7.28	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 78

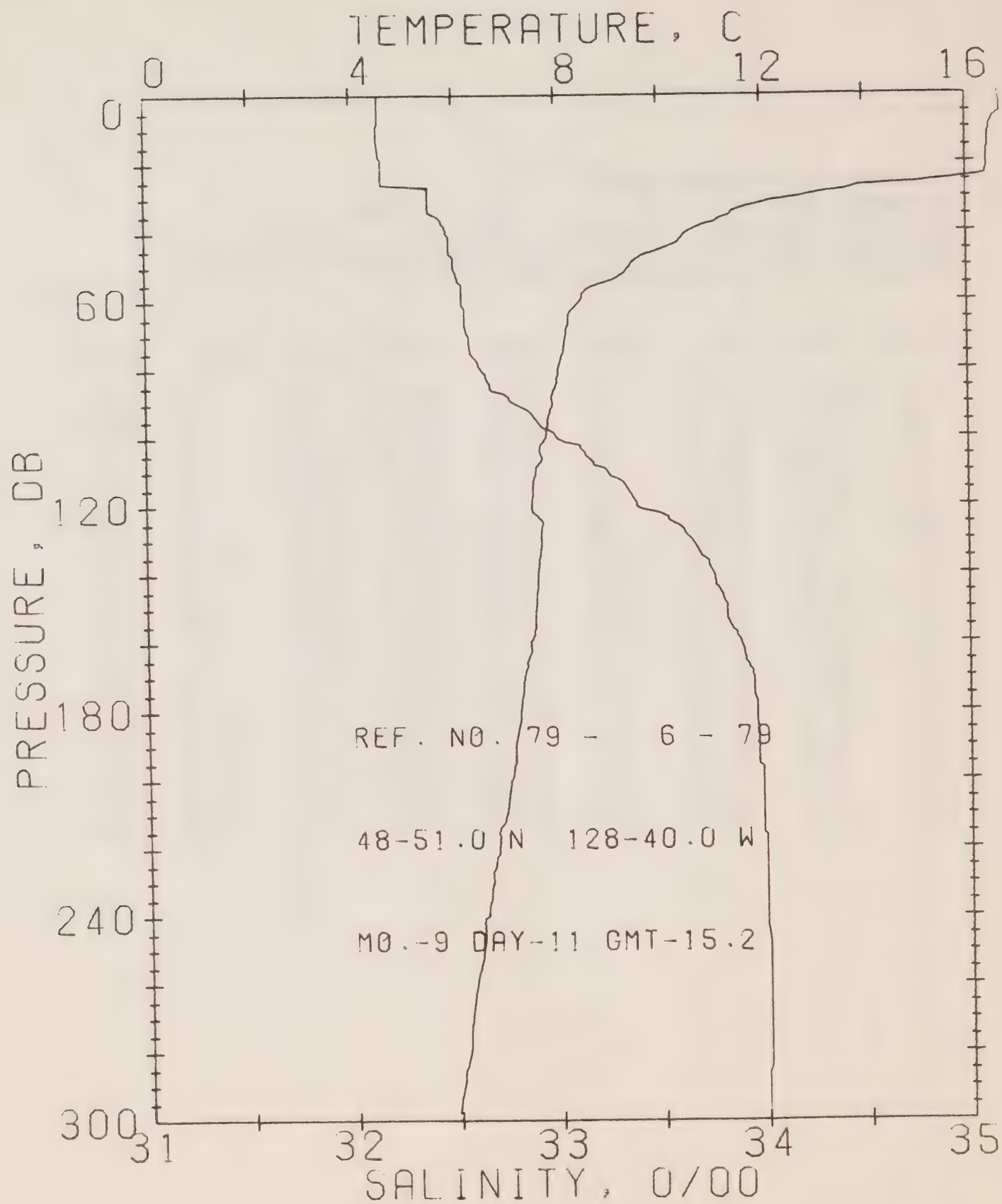
DATE 11/ 9/79

POSITION 49- 2.0N, 130-40.0W GMT 9.0 STATION 6

RESULTS OF STP CAST 315 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	16.45	32.45	0	23.71	419.6	.00	.00	1509.
10	16.45	32.45	10	23.71	419.9	.42	.02	1509.
20	16.31	32.45	20	23.74	417.1	.84	.09	1509.
30	16.26	32.45	30	23.75	416.3	1.26	.19	1509.
50	9.23	32.65	50	25.27	272.1	1.92	.46	1485.
75	8.34	32.66	75	25.41	258.7	2.58	.88	1482.
100	7.81	32.91	99	25.68	233.0	3.20	1.43	1481.
125	6.90	33.54	124	26.31	174.3	3.71	2.01	1479.
150	6.82	33.80	149	26.52	154.3	4.12	2.58	1479.
175	6.62	33.90	174	26.62	144.9	4.49	3.20	1479.
200	6.31	33.91	199	26.67	140.2	4.85	3.88	1478.
225	5.99	33.91	224	26.72	136.5	5.20	4.63	1477.
250	5.74	33.91	248	26.75	133.8	5.53	5.45	1477.
300	5.16	33.91	298	26.82	127.4	6.19	7.28	1475.
400	4.44	33.96	397	26.94	116.4	7.41	11.63	1474.
500	4.10	34.06	496	27.05	106.4	8.52	16.73	1474.
600	3.87	34.14	595	27.13	98.9	9.55	22.49	1475.
800	3.48	34.28	793	27.29	85.4	11.39	35.55	1477.
1000	3.11	34.38	991	27.40	75.2	12.98	50.09	1479.
1200	2.84	34.46	1188	27.49	67.4	14.40	66.00	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 79

DATE 11/ 9/79

POSITION 48-51.0N, 128-40.0W

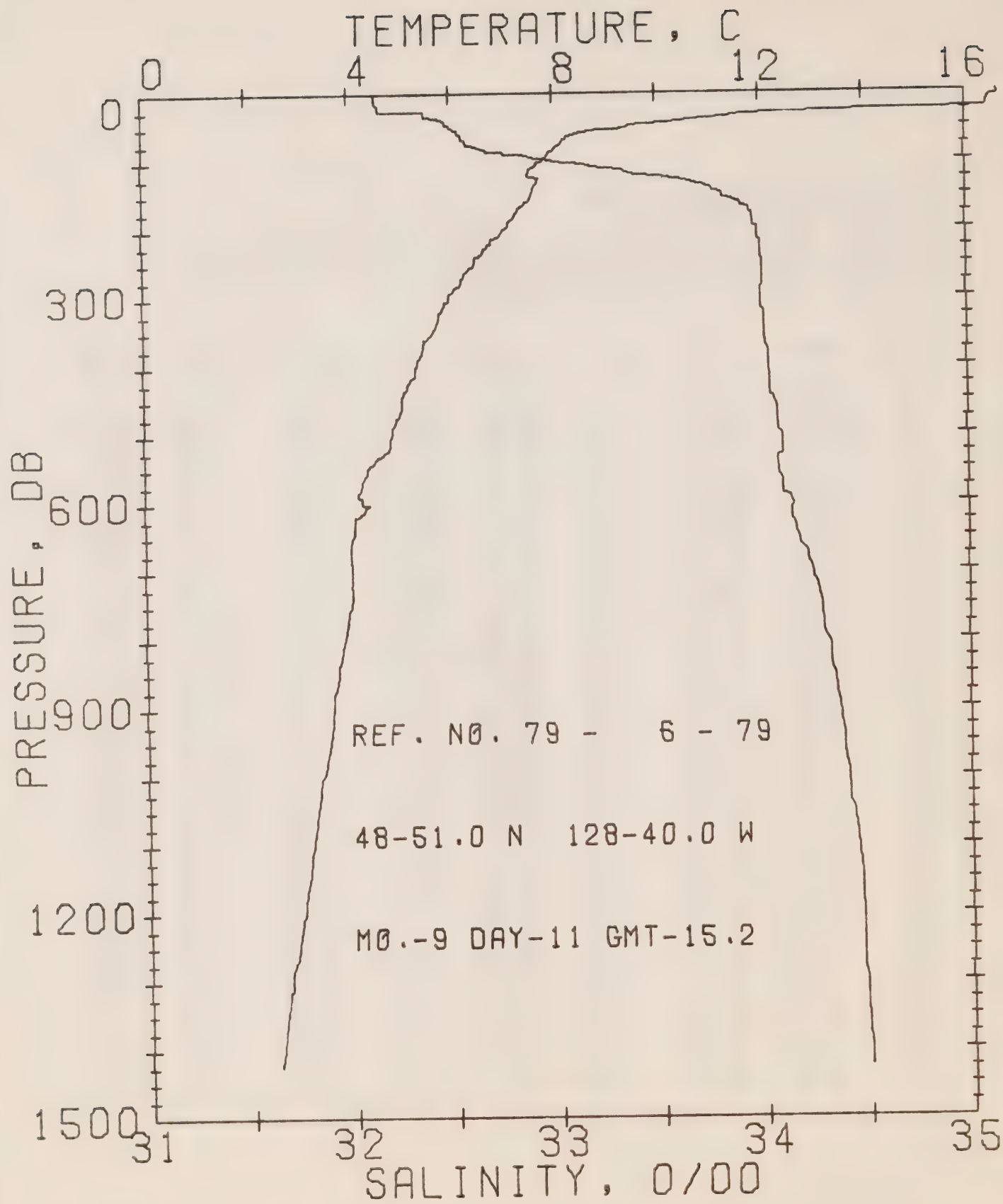
GMT 15.2

STATION 5

RESULTS OF STP CAST 186 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	16.65	32.14	0	23.43	446.6	.00	.00	1509.
10	16.46	32.13	10	23.46	443.4	.45	.02	1509.
20	16.40	32.15	20	23.49	441.1	.89	.09	1509.
30	12.76	32.38	30	24.44	351.1	1.30	.19	1497.
40	10.59	32.47	40	24.90	306.8	1.62	.31	1490.
50	9.44	32.50	50	25.12	286.4	1.92	.45	1486.
60	8.47	32.54	60	25.30	269.2	2.20	.60	1482.
70	8.18	32.57	70	25.37	263.0	2.46	.78	1482.
80	8.04	32.63	80	25.43	256.7	2.72	.98	1481.
90	7.91	32.80	90	25.58	242.5	2.97	1.19	1481.
100	7.78	33.00	99	25.76	225.9	3.21	1.42	1481.
110	7.57	33.24	109	25.98	205.1	3.42	1.65	1481.
120	7.50	33.39	119	26.11	193.4	3.62	1.88	1481.
130	7.68	33.65	129	26.28	176.8	3.80	2.11	1482.
140	7.61	33.76	139	26.38	167.8	3.97	2.35	1482.
150	7.56	33.82	149	26.43	162.7	4.14	2.59	1482.
160	7.45	33.89	159	26.50	156.2	4.30	2.85	1482.
170	7.31	33.95	169	26.57	150.0	4.45	3.11	1482.
180	7.23	33.96	179	26.59	148.4	4.60	3.37	1482.
190	7.13	33.97	189	26.61	146.3	4.75	3.65	1481.
200	7.03	33.99	199	26.64	143.7	4.89	3.94	1481.
210	6.93	33.99	209	26.66	142.5	5.04	4.24	1481.
220	6.78	34.00	219	26.68	139.9	5.18	4.55	1480.
230	6.66	34.00	228	26.70	138.5	5.32	4.87	1480.
240	6.55	34.00	238	26.71	137.2	5.46	5.19	1480.
250	6.44	34.01	248	26.74	135.2	5.59	5.53	1480.
260	6.33	34.01	258	26.75	133.8	5.73	5.88	1479.
270	6.23	34.01	268	26.76	132.7	5.86	6.24	1479.
280	6.17	34.01	278	26.77	132.0	5.99	6.61	1479.
290	6.03	34.00	288	26.78	131.2	6.12	7.00	1479.
300	5.95	34.00	298	26.79	130.3	6.25	7.39	1478.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 79

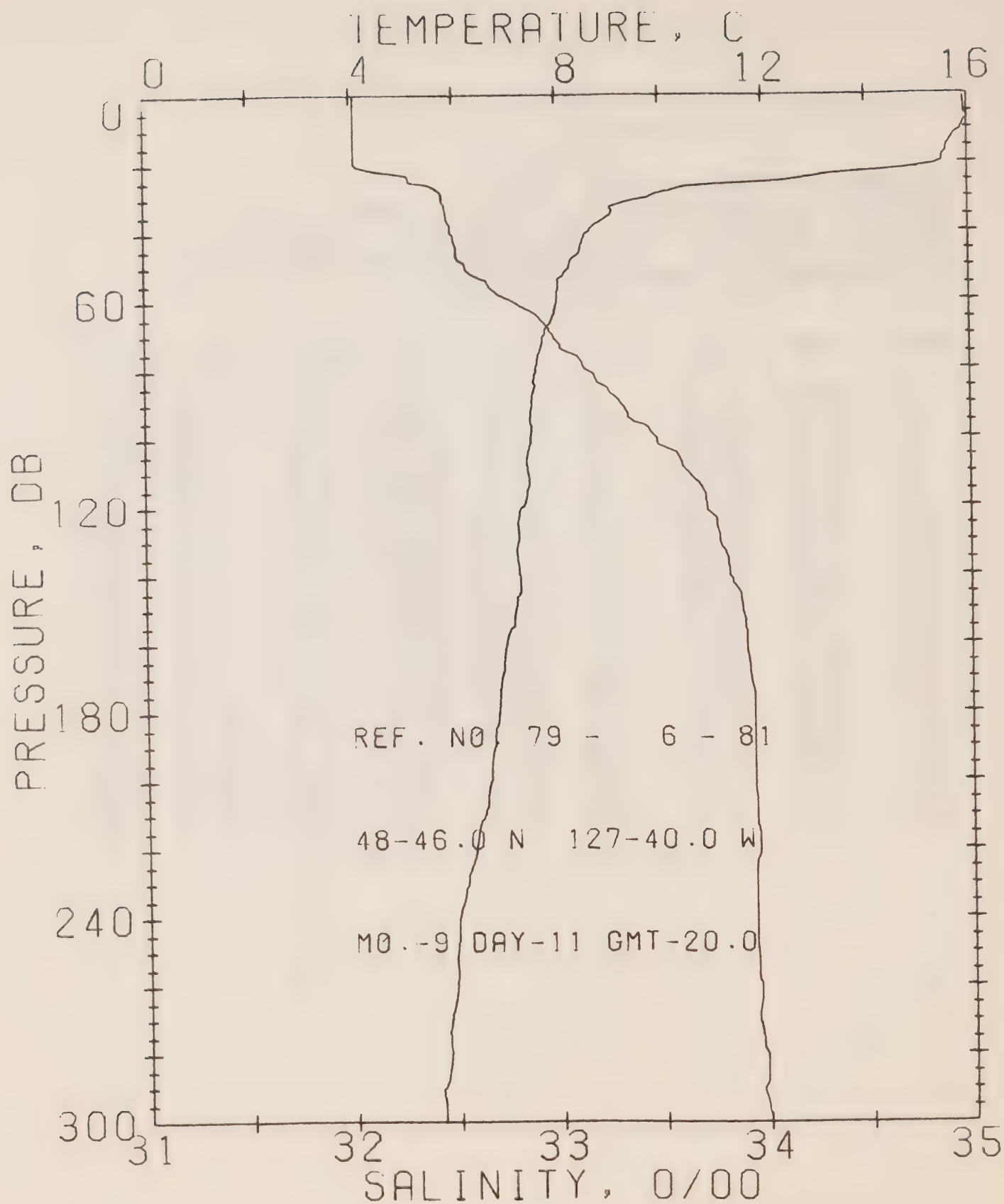
DATE 11/ 9/79

POSITION 48-51.0N, 128-40.0W GMT 15.2 STATION 5

RESULTS OF STP CAST 377 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	16.65	32.14	0	23.43	446.6	.00	.00	1509.
10	16.46	32.13	10	23.46	443.4	.45	.02	1509.
20	16.40	32.15	20	23.49	441.1	.89	.09	1509.
30	12.76	32.38	30	24.44	351.1	1.30	.19	1497.
50	9.44	32.50	50	25.12	286.4	1.92	.45	1486.
75	8.14	32.58	75	25.38	261.8	2.59	.87	1482.
100	7.78	33.00	99	25.76	225.9	3.21	1.42	1481.
125	7.72	33.57	124	26.21	183.2	3.71	2.00	1482.
150	7.56	33.82	149	26.43	162.7	4.14	2.59	1482.
175	7.29	33.95	174	26.57	149.8	4.53	3.24	1482.
200	7.03	33.99	199	26.64	143.7	4.89	3.94	1481.
225	6.71	34.00	224	26.69	139.0	5.25	4.70	1480.
250	6.44	34.01	248	26.74	135.2	5.59	5.53	1480.
300	5.95	34.00	298	26.79	130.3	6.25	7.39	1478.
400	5.30	34.03	397	26.90	121.2	7.51	11.86	1477.
500	4.81	34.09	496	27.00	111.9	8.68	17.21	1477.
600	4.26	34.14	595	27.10	102.6	9.75	23.24	1477.
800	3.83	34.31	793	27.27	87.3	11.64	36.68	1478.
1000	3.36	34.40	991	27.40	76.6	13.28	51.63	1480.
1200	2.98	34.47	1188	27.49	68.4	14.72	67.75	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 81

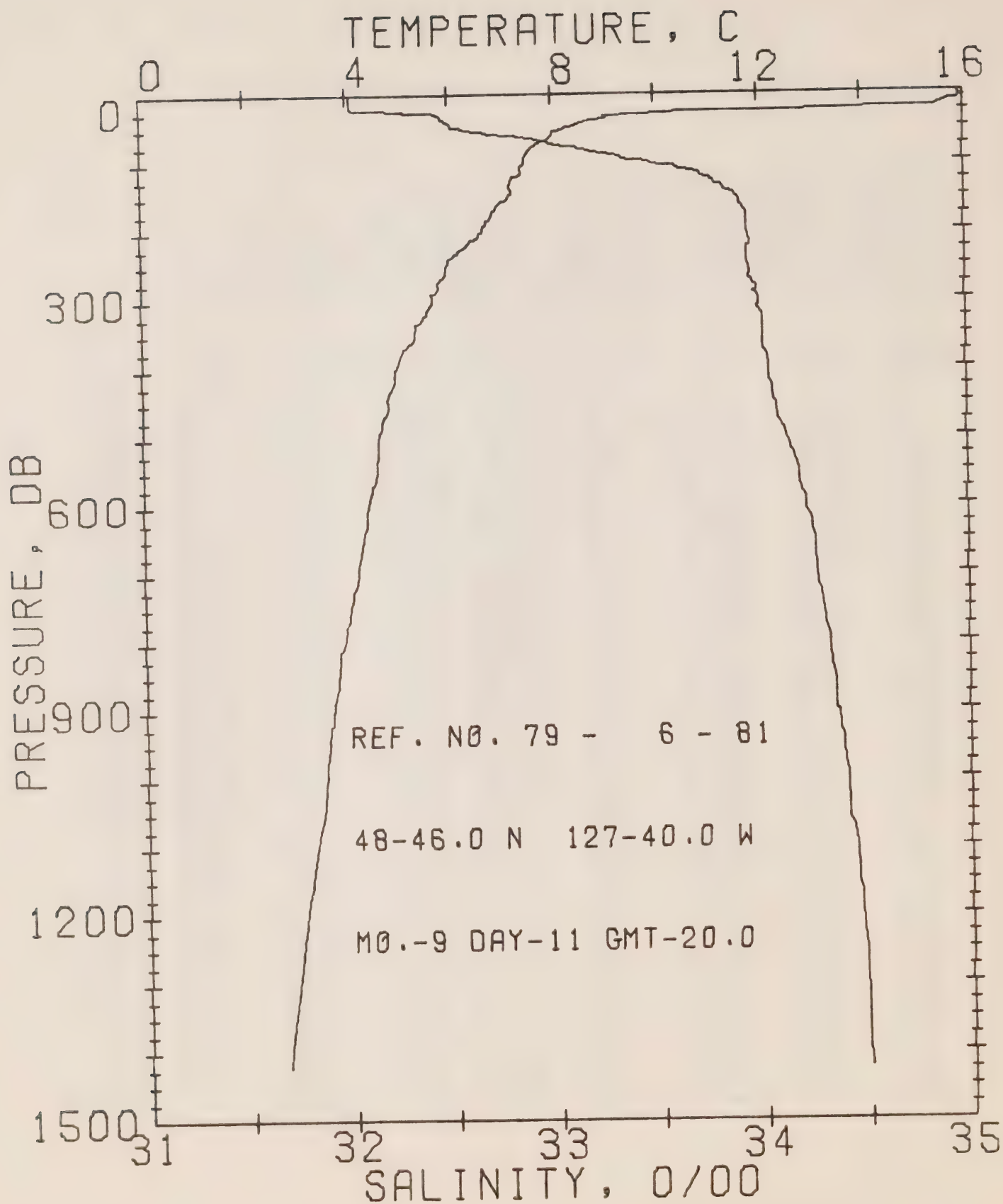
DATE 11/ 9/79

POSITION 48-46.0N, 127-40.0W GMT 20.0 STATION 4

RESULTS OF STP CAST 186 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.91	32.02	0	23.50	439.4	.00	.00	1507.
10	15.89	32.02	10	23.51	439.2	.44	.02	1507.
20	15.49	32.02	20	23.60	431.1	.87	.09	1506.
30	9.78	32.45	30	25.02	295.0	1.23	.18	1487.
40	8.64	32.49	40	25.23	275.1	1.51	.28	1483.
50	8.25	32.55	50	25.34	264.9	1.78	.40	1482.
60	8.01	32.79	60	25.56	244.1	2.03	.54	1481.
70	7.76	32.98	70	25.75	226.7	2.27	.70	1481.
80	7.58	33.13	80	25.89	213.2	2.49	.87	1480.
90	7.49	33.31	89	26.04	199.0	2.69	1.05	1480.
100	7.47	33.48	99	26.18	186.0	2.89	1.23	1481.
110	7.42	33.63	109	26.30	174.3	3.07	1.42	1481.
120	7.32	33.72	119	26.39	166.5	3.24	1.62	1481.
130	7.22	33.78	129	26.45	160.8	3.40	1.83	1480.
140	7.23	33.83	139	26.49	157.4	3.56	2.05	1481.
150	7.14	33.89	149	26.55	151.8	3.71	2.28	1481.
160	6.96	33.91	159	26.59	148.1	3.86	2.51	1480.
170	6.87	33.93	169	26.61	145.8	4.01	2.76	1480.
180	6.79	33.94	179	26.63	143.9	4.15	3.02	1480.
190	6.72	33.94	189	26.64	143.1	4.30	3.29	1480.
200	6.63	33.94	199	26.66	142.1	4.44	3.57	1479.
210	6.50	33.95	209	26.68	139.8	4.58	3.87	1479.
220	6.33	33.96	219	26.71	137.0	4.72	4.17	1479.
230	6.15	33.94	228	26.72	136.4	4.85	4.48	1478.
240	6.00	33.94	238	26.74	134.5	4.99	4.81	1478.
250	5.94	33.94	248	26.75	133.6	5.12	5.14	1478.
260	5.92	33.96	258	26.76	132.4	5.26	5.49	1478.
270	5.80	33.95	268	26.77	131.8	5.39	5.85	1477.
280	5.80	33.99	278	26.80	128.9	5.52	6.21	1477.
290	5.68	33.97	288	26.80	129.0	5.65	6.58	1477.
300	5.67	34.00	298	26.83	126.8	5.78	6.97	1477.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 81

DATE 11/ 9/79

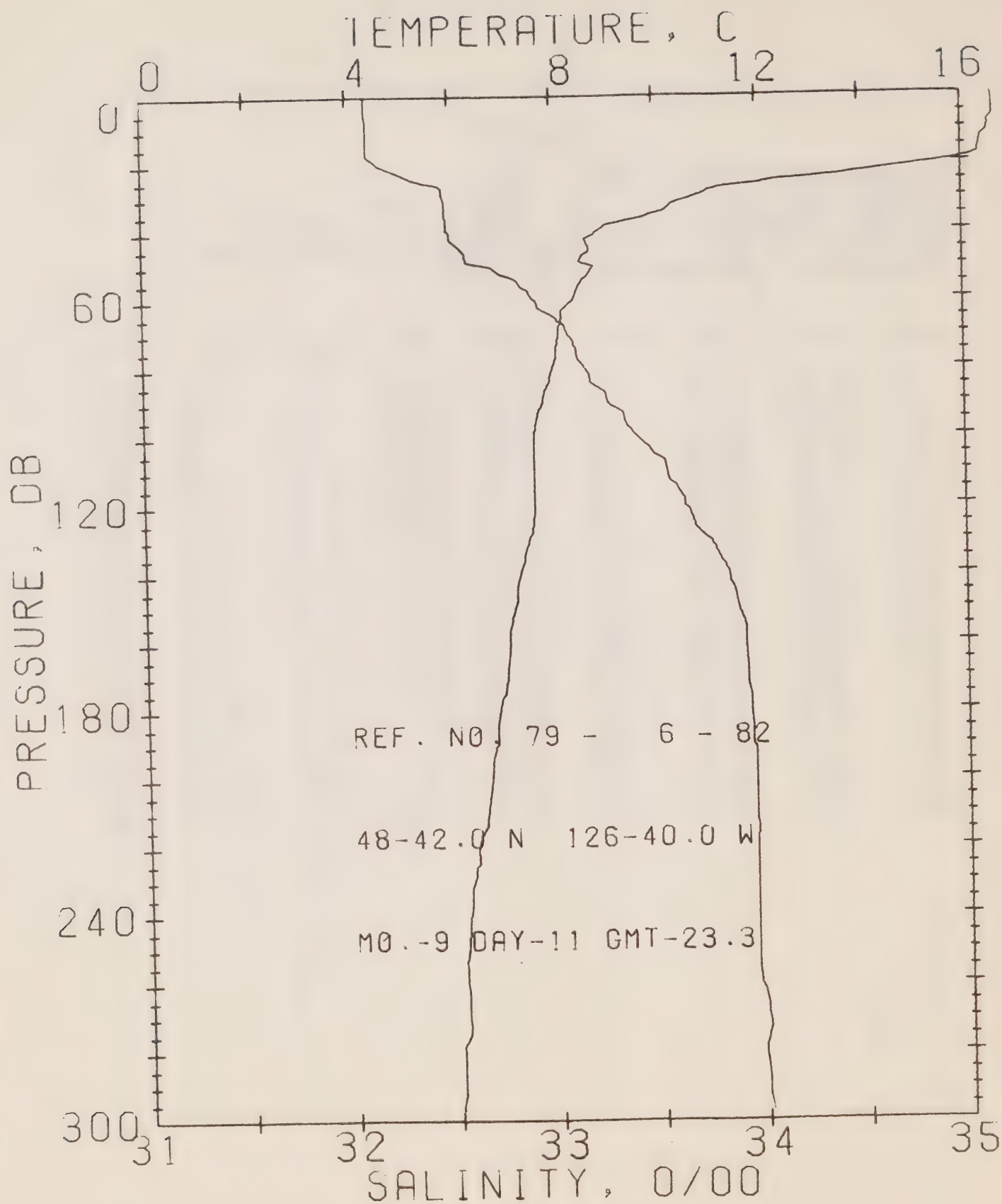
POSITION 48-46.0N, 127-40.0W GMT 20.0

STATION 4

RESULTS OF STP CAST 332 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	15.91	32.02	0	23.50	439.4	.00	.00	1507.
10	15.89	32.02	10	23.51	439.2	.44	.02	1507.
20	15.49	32.02	20	23.60	431.1	.87	.09	1506.
30	9.78	32.45	30	25.02	295.0	1.23	.18	1487.
50	8.25	32.55	50	25.34	264.9	1.78	.40	1482.
75	7.66	33.05	75	25.82	220.2	2.38	.78	1480.
100	7.47	33.48	99	26.18	186.0	2.89	1.23	1481.
125	7.21	33.77	124	26.44	161.3	3.32	1.73	1480.
150	7.14	33.89	149	26.55	151.8	3.71	2.28	1481.
175	6.82	33.94	174	26.63	144.3	4.08	2.89	1480.
200	6.63	33.94	199	26.66	142.1	4.44	3.57	1479.
225	6.24	33.94	223	26.71	137.2	4.79	4.32	1478.
250	5.94	33.94	248	26.75	133.6	5.12	5.14	1478.
300	5.67	34.00	298	26.83	126.8	5.78	6.97	1477.
400	4.92	34.04	397	26.95	116.0	6.99	11.30	1476.
500	4.57	34.12	496	27.05	107.1	8.12	16.46	1476.
600	4.34	34.21	595	27.14	98.7	9.15	22.22	1477.
800	3.85	34.32	793	27.28	86.5	11.00	35.41	1478.
1000	3.46	34.40	991	27.39	77.8	12.64	50.40	1480.
1200	3.04	34.46	1188	27.48	69.6	14.11	66.87	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 82

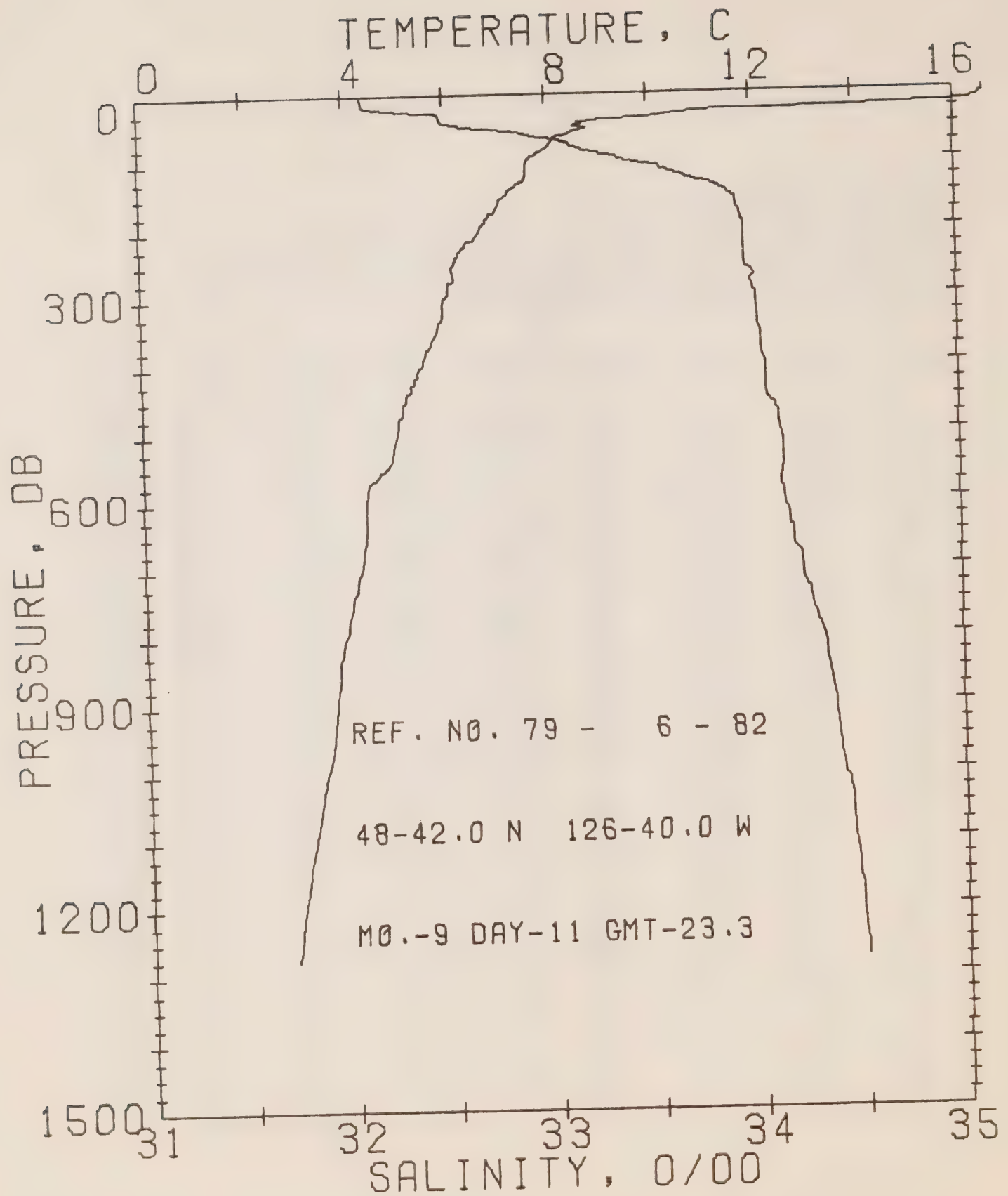
DATE 11/ 9/79

POSITION 48-42.0N, 126-40.0W GMT 23.3 STATION 3

RESULTS OF STP CAST 181 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	16.60	32.09	0	23.40	449.1	.00	.00	1509.
10	16.54	32.10	10	23.42	447.4	.45	.02	1509.
20	15.75	32.15	20	23.64	427.0	.89	.09	1507.
30	10.79	32.47	30	24.87	309.5	1.25	.18	1491.
40	8.86	32.50	40	25.21	277.5	1.54	.28	1484.
50	8.83	32.70	50	25.37	262.4	1.81	.41	1484.
60	8.39	32.92	60	25.61	239.9	2.06	.55	1483.
70	8.11	33.07	70	25.77	224.9	2.29	.70	1482.
80	7.98	33.16	80	25.85	216.8	2.51	.87	1482.
90	7.78	33.27	89	25.97	205.7	2.72	1.05	1481.
100	7.60	33.41	99	26.11	192.9	2.92	1.25	1481.
110	7.61	33.55	109	26.21	183.1	3.11	1.45	1481.
120	7.60	33.63	119	26.28	177.0	3.29	1.66	1482.
130	7.47	33.76	129	26.40	165.7	3.46	1.88	1481.
140	7.29	33.84	139	26.49	157.1	3.62	2.10	1481.
150	7.16	33.89	149	26.55	152.1	3.78	2.33	1481.
160	7.06	33.92	159	26.58	148.7	3.93	2.56	1480.
170	7.00	33.93	169	26.60	147.4	4.08	2.81	1480.
180	6.85	33.94	179	26.63	144.6	4.22	3.07	1480.
190	6.79	33.95	189	26.64	143.3	4.37	3.34	1480.
200	6.67	33.96	199	26.67	141.1	4.51	3.62	1480.
210	6.59	33.96	209	26.68	140.2	4.65	3.92	1479.
220	6.39	33.96	219	26.70	137.8	4.79	4.22	1479.
230	6.29	33.96	228	26.72	136.6	4.92	4.54	1479.
240	6.22	33.96	238	26.73	135.9	5.06	4.86	1478.
250	6.15	33.96	248	26.73	135.1	5.20	5.20	1478.
260	6.13	33.97	258	26.75	134.3	5.33	5.55	1478.
270	6.17	34.00	268	26.77	132.5	5.46	5.91	1479.
280	6.05	33.99	278	26.77	132.0	5.60	6.28	1479.
290	6.06	34.00	288	26.78	131.5	5.73	6.66	1479.
300	5.96	34.01	298	26.80	129.7	5.86	7.06	1478.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 82

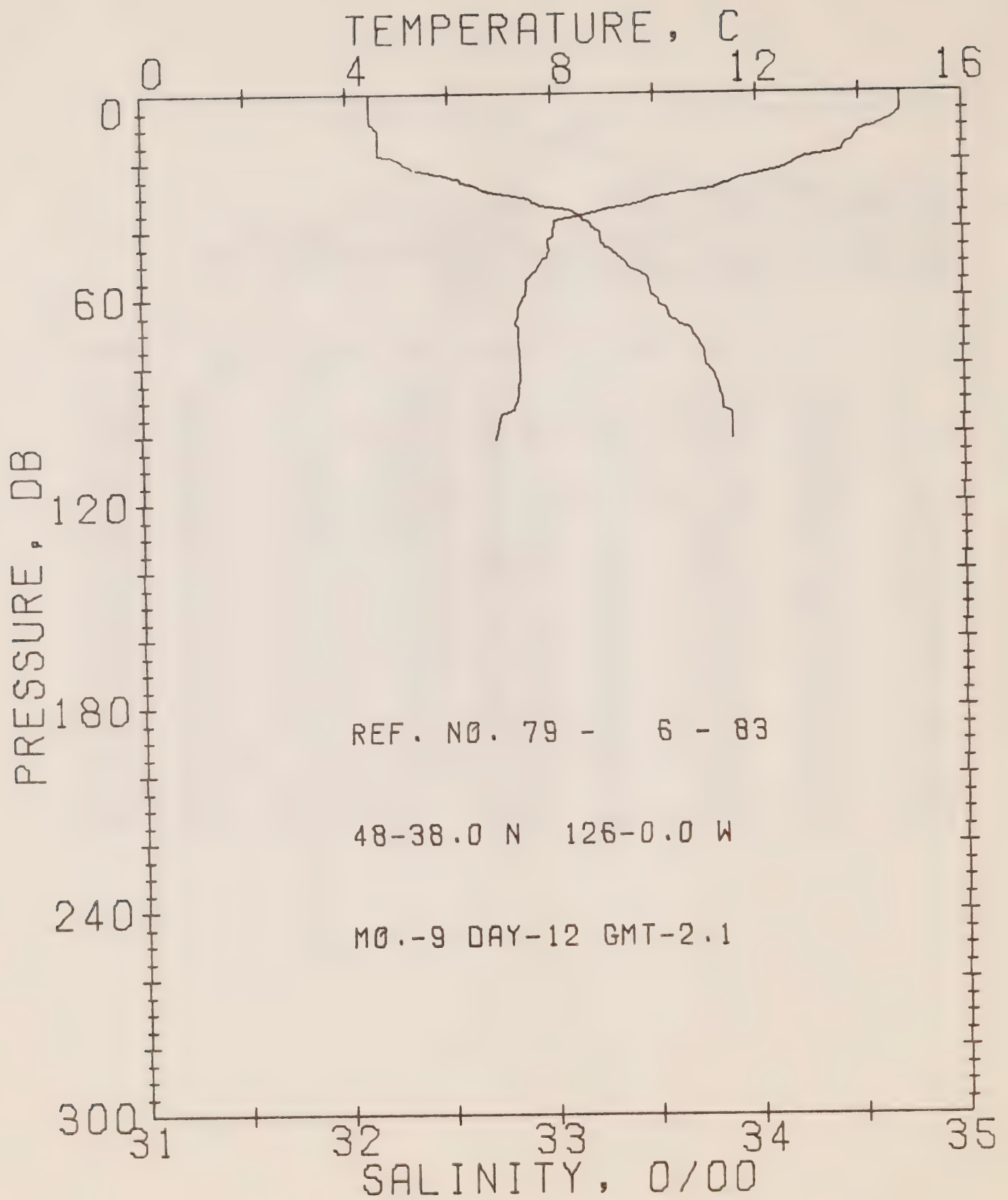
DATE 11/ 9/79

POSITION 48-42.0N, 126-40.0W GMT 23.3 STATION 3

RESULTS OF STP CAST 327 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	16.60	32.09	0	23.40	449.1	.00	.00	1509.
10	16.54	32.10	10	23.42	447.4	.45	.02	1509.
20	15.75	32.15	20	23.64	427.0	.89	.09	1507.
30	10.79	32.47	30	24.87	309.5	1.25	.18	1491.
50	8.83	32.70	50	25.37	262.4	1.81	.41	1484.
75	8.05	33.11	75	25.81	221.2	2.40	.78	1482.
100	7.60	33.41	99	26.11	192.9	2.92	1.25	1481.
125	7.57	33.68	124	26.32	172.9	3.38	1.77	1482.
150	7.16	33.89	149	26.55	152.1	3.78	2.33	1481.
175	6.95	33.94	174	26.61	146.0	4.15	2.94	1480.
200	6.67	33.96	199	26.67	141.1	4.51	3.62	1480.
225	6.39	33.96	223	26.70	137.8	4.86	4.38	1479.
250	6.15	33.96	248	26.73	135.1	5.20	5.20	1478.
300	5.96	34.01	298	26.80	129.7	5.86	7.06	1478.
400	5.49	34.05	397	26.89	122.1	7.12	11.57	1478.
500	4.98	34.12	496	27.00	111.8	8.29	16.93	1478.
600	4.34	34.13	595	27.08	104.6	9.37	22.97	1477.
800	3.88	34.31	793	27.27	87.5	11.31	36.77	1479.
1000	3.45	34.41	991	27.39	76.9	12.96	51.82	1480.
1200	2.94	34.48	1188	27.50	67.3	14.39	67.81	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 83

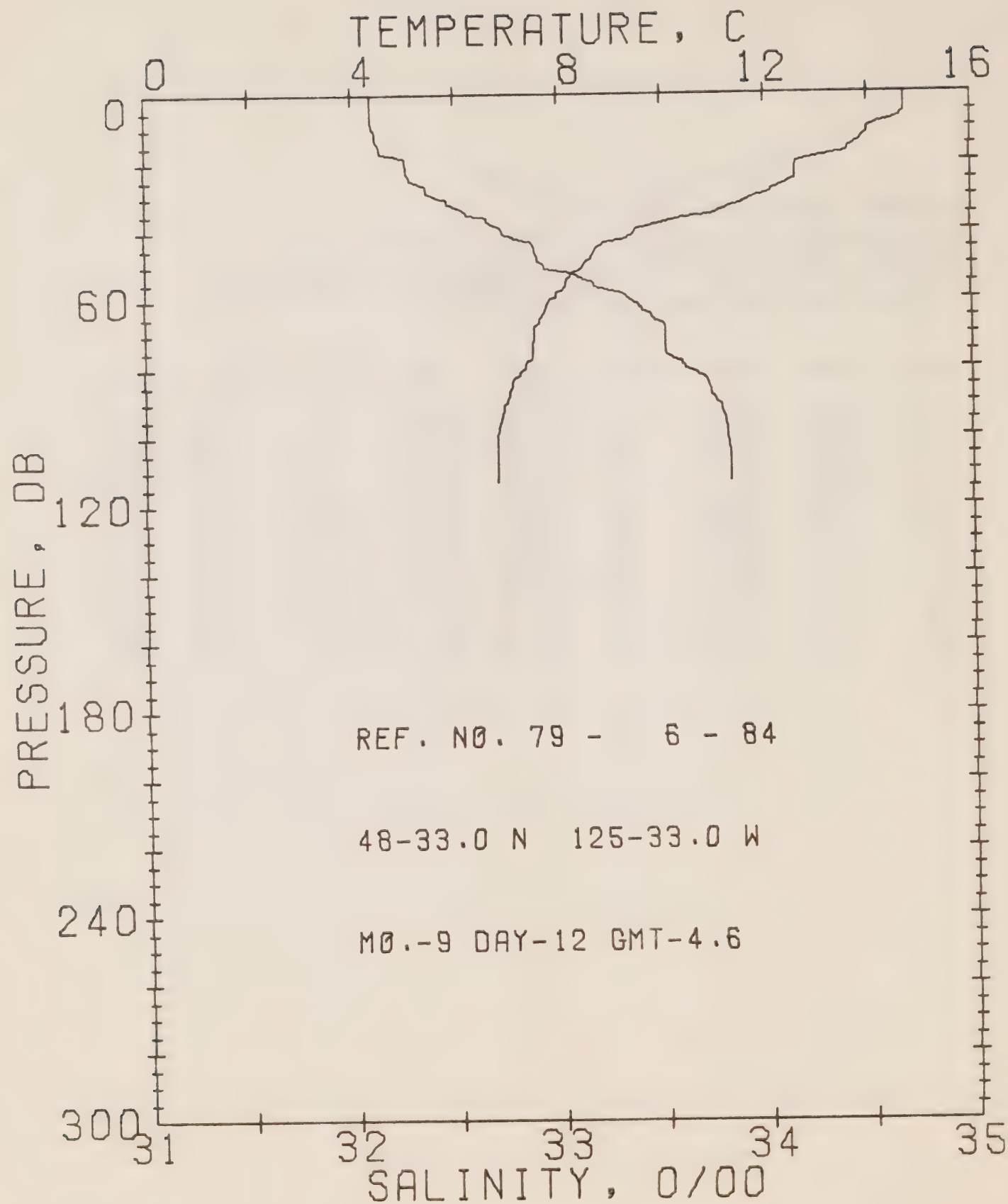
DATE 12/ 9/79

POSITION 48-38.0N, 126- .0W GMT 2.1 STATION 2

RESULTS OF STP CAST 77 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.77	32.11	0	23.82	409.1	.00	.00	1503.
10	14.36	32.14	10	23.93	399.0	.41	.02	1502.
20	12.80	32.27	20	24.34	359.7	.79	.08	1497.
30	10.24	32.82	30	25.23	275.0	1.12	.16	1489.
40	8.04	33.21	40	25.89	213.0	1.35	.25	1481.
50	7.80	33.36	50	26.03	199.1	1.56	.34	1481.
60	7.45	33.50	60	26.20	183.7	1.75	.45	1480.
70	7.37	33.67	70	26.34	170.1	1.93	.56	1480.
80	7.37	33.74	80	26.40	165.0	2.09	.69	1480.
90	7.34	33.82	89	26.46	158.8	2.25	.83	1480.
100	6.92	33.87	99	26.56	149.7	2.41	.98	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 6- 84

DATE 12/ 9/79

POSITION 48-33.0N, 125-33.0W GMT 4.6 STATION 1

RESULTS OF STP CAST 86 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	14.73	32.09	0	23.81	409.8	.00	.00	1503.
10	14.06	32.10	10	23.96	396.0	.41	.02	1501.
20	12.65	32.26	20	24.36	357.7	.79	.08	1497.
30	11.83	32.41	30	24.63	332.1	1.14	.17	1494.
40	9.51	32.72	40	25.28	270.7	1.44	.28	1486.
50	8.50	32.93	50	25.60	240.5	1.70	.39	1483.
60	7.85	33.35	60	26.02	200.3	1.91	.51	1481.
70	7.55	33.51	70	26.19	184.4	2.11	.64	1480.
80	7.36	33.61	80	26.30	174.6	2.29	.78	1480.
90	7.02	33.76	89	26.46	159.0	2.45	.92	1479.
100	6.84	33.81	99	26.53	153.1	2.61	1.07	1478.
110	6.83	33.82	109	26.54	152.3	2.76	1.23	1479.

Surface Salinity and Temperature Observations

(P-79-6)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 6

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DAY	GMT	0/00	C	WEST
79	7	27	0	31.214		123-30
79	7	27	0	31.664		124- 0
79	7	27	0	31.486		124-30
79	7	27	0	31.753		125- 0
79	7	27	2235	31.696	11.9	125-33
79	7	28	40	31.733	12.5	126- 0
79	7	28	300	32.121	13.3	126-40
79	7	28	610	32.133	15.5	127-40
79	7	28	950	32.129	15.5	128-40
79	7	28	1300	32.439		129-40
79	7	28	1610	32.550	15.6	130-40
79	7	28	2030	32.339		131-40
79	7	28	2307	32.415	15.4	132-40
79	7	29	230	32.455		133-40
79	7	29	510	32.472	14.5	134-40
79	7	29	815	32.459		135-40
79	7	29	1100	32.487		136-40
79	7	29	1345	32.450		137-40
79	7	29	1615	32.472	13.2	138-40
79	7	29	2140	32.464	13.0	140-40
79	7	30	20	32.479		141-40
79	7	30	510	32.490	12.5	142-40
79	7	30	1015	32.515		143-40
79	7	31	0	32.523	13.0	145- 0
79	8	1	0	32.535	13.2	ON STATION
79	8	2	0	32.528	13.7	ON STATION
79	8	3	0	32.552	13.6	ON STATION
79	8	4	0	32.547	13.8	ON STATION
79	8	5	1620	32.537	14.6	ON STATION
79	8	6	0	32.547	14.7	ON STATION
79	8	7	0	32.547	14.3	ON STATION
79	8	8	300	32.532	14.2	ON STATION
79	8	12	0	32.536	14.7	ON STATION
79	8	13	0	32.480	14.3	ON STATION
79	8	14	0	32.495	14.1	ON STATION
79	8	15	0	32.494	14.3	ON STATION
79	8	16	0	32.473	14.3	ON STATION
79	8	17	0	32.483	14.4	ON STATION
79	8	18	0	32.485	14.3	ON STATION
79	8	19	0	32.502	14.7	ON STATION
79	8	20	0	32.500	15.1	ON STATION
79	8	21	0	32.485	15.4	ON STATION
79	8	22	0	32.494	15.6	ON STATION
79	8	23	0	32.476	15.6	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 6

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	8	24	0	32.477	15.1	ON STATION
79	8	25	0	32.482	15.3	ON STATION
79	8	26	0	32.489	15.1	ON STATION
79	8	27	0		14.9	ON STATION
79	8	28	140	32.482	15.4	ON STATION
79	8	29	0	32.486	15.3	ON STATION
79	8	30	0	32.485	15.6	ON STATION
79	8	31	0	32.492	15.6	ON STATION
79	9	1	500	32.502	15.6	ON STATION
79	9	2	0	32.486	15.4	ON STATION
79	9	3	0	32.480	15.2	ON STATION
79	9	4	0	32.505	15.0	ON STATION
79	9	5	0	32.493	14.6	ON STATION
79	9	6	0	32.509	14.5	ON STATION
79	9	7	100	32.503	14.5	ON STATION
79	9	8	0	32.494	14.7	ON STATION
79	9	9	0	32.491	14.7	145- 0
79	9	9	1110	32.514		143-40
79	9	9	1750	32.506	14.5	142-40
79	9	10	10	32.515		141-40
79	9	10	412	32.487	14.7	140-40
79	9	10	640	32.466		139-40
79	9	10	920	32.454	15.0	138-40
79	9	10	1155	32.508		137-40
79	9	10	1435	32.472	15.1	136-40
79	9	10	1800	32.282		135-40
79	9	10	2050	32.347	15.4	134-40
79	9	11	10	32.368		133-40
79	9	11	310	32.342	15.7	132-40
79	9	11	600	32.399		131-40
79	9	11	900	32.406	16.5	130-40
79	9	11	1215	32.225		129-40
79	9	11	1600	32.133	16.6	128-40
79	9	11	1955	32.063	16.0	127-40
79	9	11	2330	32.084	16.5	126-40
79	9	12	200	32.124	14.9	126- 0
79	9	12	445	32.114	14.8	125-33
79	9	12	700	30.661		125- 0
79	9	12	920	30.343		124-30
79	9	12	1120	30.972		124- 0
79	9	12	1350	31.634		123-30

* DENOTES SALINITY SAMPLE TAKEN FROM A
BUCKET. ALL OTHER SAMPLES TAKEN FROM
THE SEAWATER LOOP

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P
7 September - 25 October 1979
VOLUME 103



INSTITUTE OF OCEAN SCIENCES
Sidney, B.C.



For additional copies or further information please write to:

Department of Fisheries and Oceans

Institute of Ocean Sciences

P.O. Box 6000

Sidney, B.C. CANADA

V8L 4B2

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P

7 September - 25 October 1979

VOLUME 103

Institute of Ocean Sciences

Sidney, B.C.

1981

ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weathership at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

TABLE OF CONTENTS

ABSTRACT.....	i
TABLE OF CONTENTS.....	iii
INTRODUCTION.....	1
PROGRAM OF OBSERVATIONS.....	2
OBSERVATIONAL PROCEDURES.....	3
COMPUTATIONS.....	3
REFERENCES.....	4
LOG OF STD OBSERVATIONS.....	6
MILE GRID.....	8
RESULTS OF STD OBSERVATIONS.....	13
SURFACE SALINITY AND TEMPERATURE OBSERVATIONS.....	249

LIST OF FIGURES

Figure 1. Chart showing Line P station positions.....	9
---	---

INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude $50^{\circ}00'N$, Longitude $145^{\circ}00'W$) was inaugurated in December 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959 by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at $40'$, i.e. $139^{\circ}40'W$, $141^{\circ}40'W$, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes STD and surface salinity and temperature data collected from the CCGS Vancouver during the period 7 September to 25 October 1979.

All physical oceanographic data have been stored by the Marine Environmental Data Services Branch (MEDS), Department of Fisheries and Oceans, 240 Sparks Street, 7th Floor West, Ottawa, Ontario, Canada, K1A 0E6. Requests for these data should be directed to MEDS.

Biological and productivity data are published in the Manuscript Report series of the Department of Fisheries and Oceans (DFO), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to DFO.

Marine geochemical data are for the Ocean Chemistry Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B. C., Canada, V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS VANCOUVER, 7 September - 25 October 1979
(P-79-7) (MEDS Ref. No. 15-79-007)

Oceanographic observations were made by the officers and crew of the CCGS Vancouver.

En Route to Station P (Line P)

STD profiles were taken at Line P stations 1 to 3 and 7 to 12.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography

- 1) Thirty-nine STD profiles were taken at Station P.
Fifteen STD profiles were taken at MILE GRID positions.
- 2) Daily salinity samples were taken from the seawater loop.
- 3) BT's or XBT's were taken every three hours to coincide with meteorological observations, encoded and transmitted according to the IGOSS format.

Marine Geochemistry

Samples for air CO_2 , PCO_2 , POC, alkalinity, nutrients and tritium obtained during this cruise are for the Ocean Chemistry Division and are not included in this data report.

Biological Oceanography

Samples from 150 metre vertical plankton hauls (Station P) and nutrients (Line P) obtained during this cruise are for the Pacific Biological Station and are not included in this data report.

En Route from Station P (Line P)

STD profiles were taken at Line P stations 11, 10, 5, 4, 3 and 2.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

Observations for Other Agencies

- 1) Marine mammal observations were made by the ship's officers for Mr. M. Bigg, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., Canada.
- 2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiget, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

OBSERVATIONAL PROCEDURES

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm 0.1^{\circ}\text{C}$ accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a '*' in this data record.

Salinity determinations were made ashore with a Guildline Autosol salinometer. Accuracy using duplicated determinations is estimated to be $\pm 0.003^{\circ}/\text{oo}$.

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Electronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm 0.1^{\circ}\text{C}$.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm 0.1^{\circ}\text{C}$ for temperature and $\pm 0.1^{\circ}/\text{oo}$ for salinity.

STD profiles were taken with a Guildline Model 8700 STD system.

COMPUTATIONS

Analog traces from the salinity-temperature-pressure instrument have been digitized using a Hewlett-Packard (HP) 9821A calculator and an HP 9864A

digitizer, then replotted by an HP 9862A plotter. Digitization was continued until original and computer plotted traces were coincident.

The HP 9821A was then connected to an HP 2116 minicomputer and the digitized data transferred to 9-track tape. Using a UNIVAC 1106 computer the data was listed and obvious spikes removed.

Generally a correction is applied, determined by comparison with hydrographic casts of the same cruise. As no hydrographic casts were taken, the STD data were compared with hydrographic casts from the previous and following cruises.

The differences were very irregular, therefore because of difficulty in calibrating no correction has been applied.

Temperature and salinity values were listed at standard pressures and plotted using a Houston Complot DP8S plotter.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from magnetic tape records.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)
SVA (THETA)	is potential specific volume anomaly
DELTA D	is geopotential anomaly (J/kg)
POT EN	is potential energy in units of 10^8 ergs/cm ²
SOUND	is the velocity of sound in metres per second

Data were processed for publication by C. de Jong, B. Minkley and J. Linguanti.

REFERENCES

- Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. and Oceanogr.* 10, 141-143.
- Collins, C.A., R.L. Tripe, D.A. Healey and J. Joergensen, 1969. The time distribution of serial oceanographic data from the Ocean Station P programme. *Fish. Res. Bd. Can. Tech. Rept. No.* 106.

- MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976 (unpublished manuscript) Pacific Marine Science Report 77-9.
- Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. Deep Sea Res. 15, 185-193.
- U.S.N. Hydrographic Office, 1955. Instruction Manual of Oceanographic Observations. Publ. No. 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
001	1	07/09/79	2345	110		} Line P
002	2	08/09/79	0120	104		
003	3	08/09/79	0330	1200		
004	7	08/09/79	2205	1400		
005	8	09/09/79	0500	1400		
006	9	09/09/79	1125	1400		
007	10	09/09/79	1815	1400		
008	11	10/09/79	0215	1400		
009	12	10/09/79	1000	1400		
010	P	10/09/79	1843	1400		
011	P	11/09/79	1550	1400		} MILE grid
012	P	11/09/79	1618	300		
013	E3	11/09/79	1810	300		
014	E4	11/09/79	1935	300		
015	C1	11/09/79	2105	300		
016	W4	11/09/79	2220	300		
017	W3	11/09/79	2355	300		
018	P	14/09/79	1756	1400		
019	P	15/09/79	1850	1400		
020	P	16/09/79	1727	1400		
021	P	17/09/79	2325	1400		} MILE grid
022	P	18/09/79	1725	1400		
023	P	19/09/79	1745	1400		
024	P	20/09/79	1730	1400		
025	P	21/09/79	1815	1400		
026	P	22/09/79	1720	1400		
027	P	23/09/79	1715	1400		
028	P	24/09/79	1740	1400		
029	P	25/09/79	1715	1400		
030	P	26/09/79	1717	1400		
031	P	27/09/79	1733	1400		} MILE grid
032	P	28/09/79	1722	1400		
033	P	29/09/79	1735	1400		
034	P	01/10/79	1745	1400		
035	P	02/10/79	1610	1400		
036	P	02/10/79	1630	300		
037	E3	02/10/79	1945	300		
038	E4	02/10/79	2145	300		
039	C1	02/10/79	2330	300		
040	W4	03/10/79	0130	300		
041	W3	03/10/79	0315	300		} MILE grid
042	P	03/10/79	1750	1400		
043	P	04/10/79	1935	1400		
044	P	05/10/79	1735	1400		
045	P	06/10/79	1755	1400		
046	P	07/10/79	1717	1400		
047	P	08/10/79	1717	1400		
048	P	09/10/79	1740	1400		
049	P	10/10/79	1710	1400		
050	P	11/10/79	1718	1400		

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS (continued)

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
051	P	12/10/79	1750	1400		
052	P	15/10/79	1715	1400		
053	P	16/10/79	1607	1400		
054	P	16/10/79	1635	300		} MILE grid
055	E3	16/10/79	1835	300		
056	E4	16/10/79	2010	300		
057	C1	16/10/79	2140	300		
058	W4	16/10/79	2335	300		
059	W3	17/10/79	0110	300		
060	P	17/10/79	1755	1400		
061	P	18/10/79	1730	1400		
062	P	19/10/79	1755	1400		
063	P	20/10/79	1730	1400		
064	11	22/10/79	0500	1400		} Line P
065	10	22/10/79	1200	1400		
066	5	23/10/79	2110	1400		
067	4	24/10/79	0130	1400		
068	3	24/10/79	0600	1200		
069	2	24/10/79	0917	100		

Note: No STD salinity data due to wrong scale settings during observations.

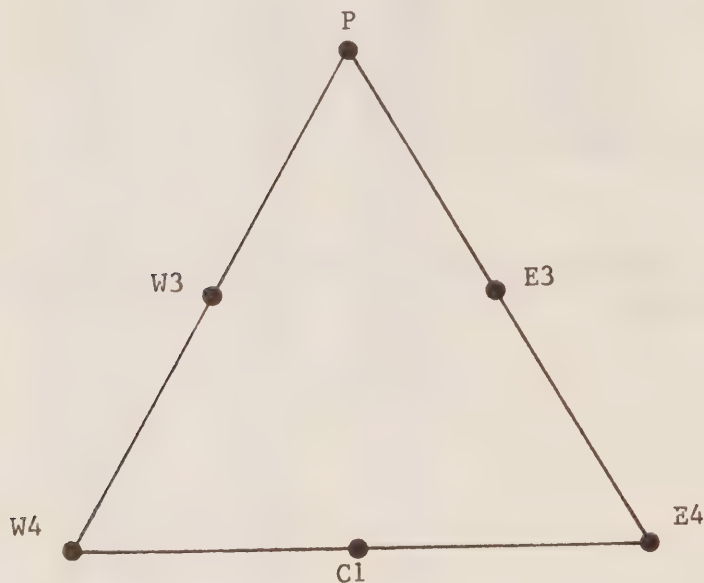
MILE GRID

(MIXED LAYER EXPERIMENT)

During the MILE experiment in the summer of 1977 a 20-mile triangular grid was initiated with STD stations to 300 metres.

During this cruise the grid survey was completed three times.

1st - STD consec. #012 - #017
 2nd - STD consec. #036 - #041
 3rd - STD consec. #054 - #059



Station ID and positions are as follows:

P = 50°00'N, 145°00'W
 E3 = 49°52'N, 144°52'W
 E4 = 49°43'N, 144°44'W
 C1 = 49°42'N, 145°00'W
 W4 = 49°43'N, 145°15'W
 W3 = 49°52'N, 145°07'W

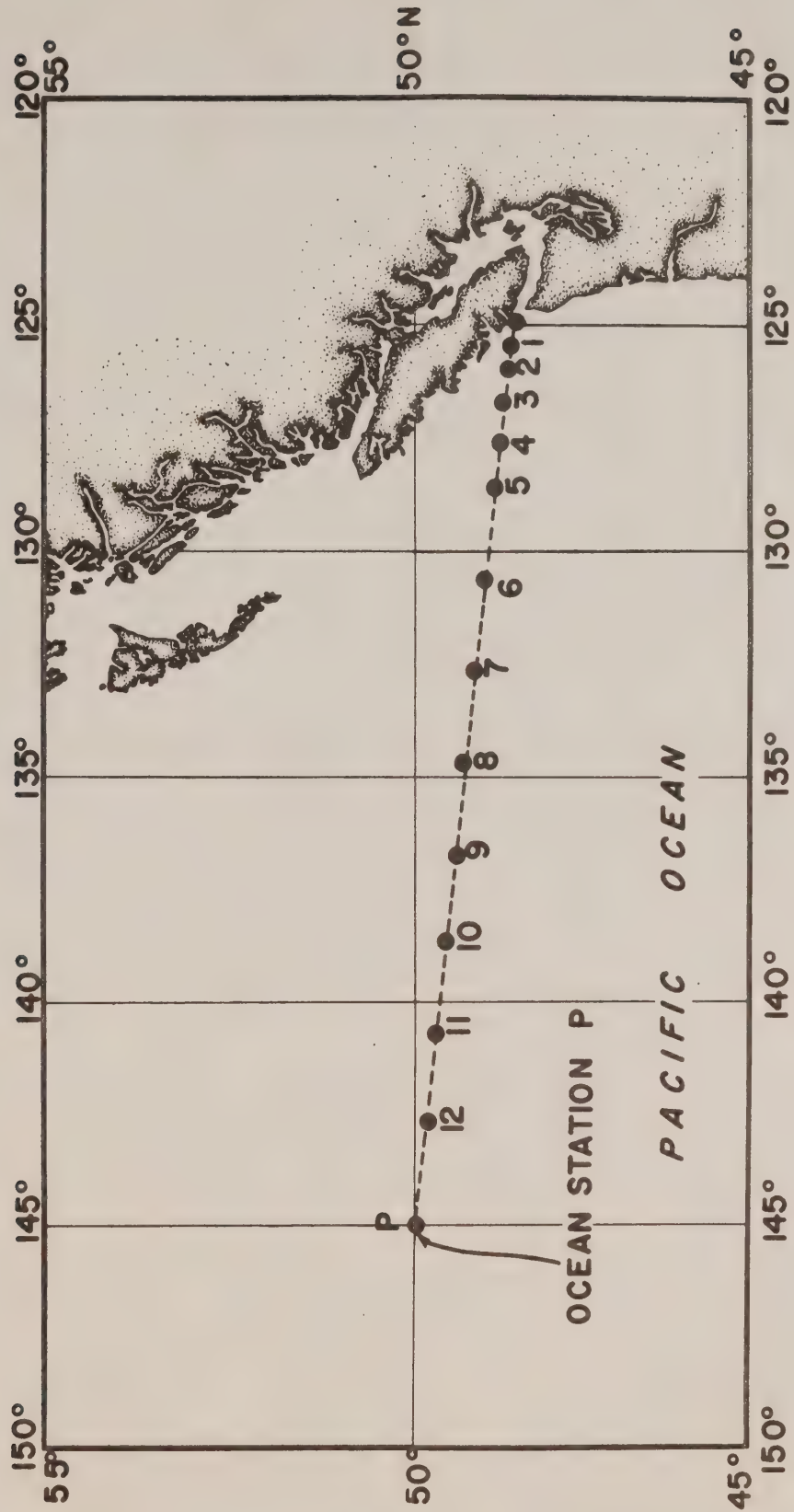


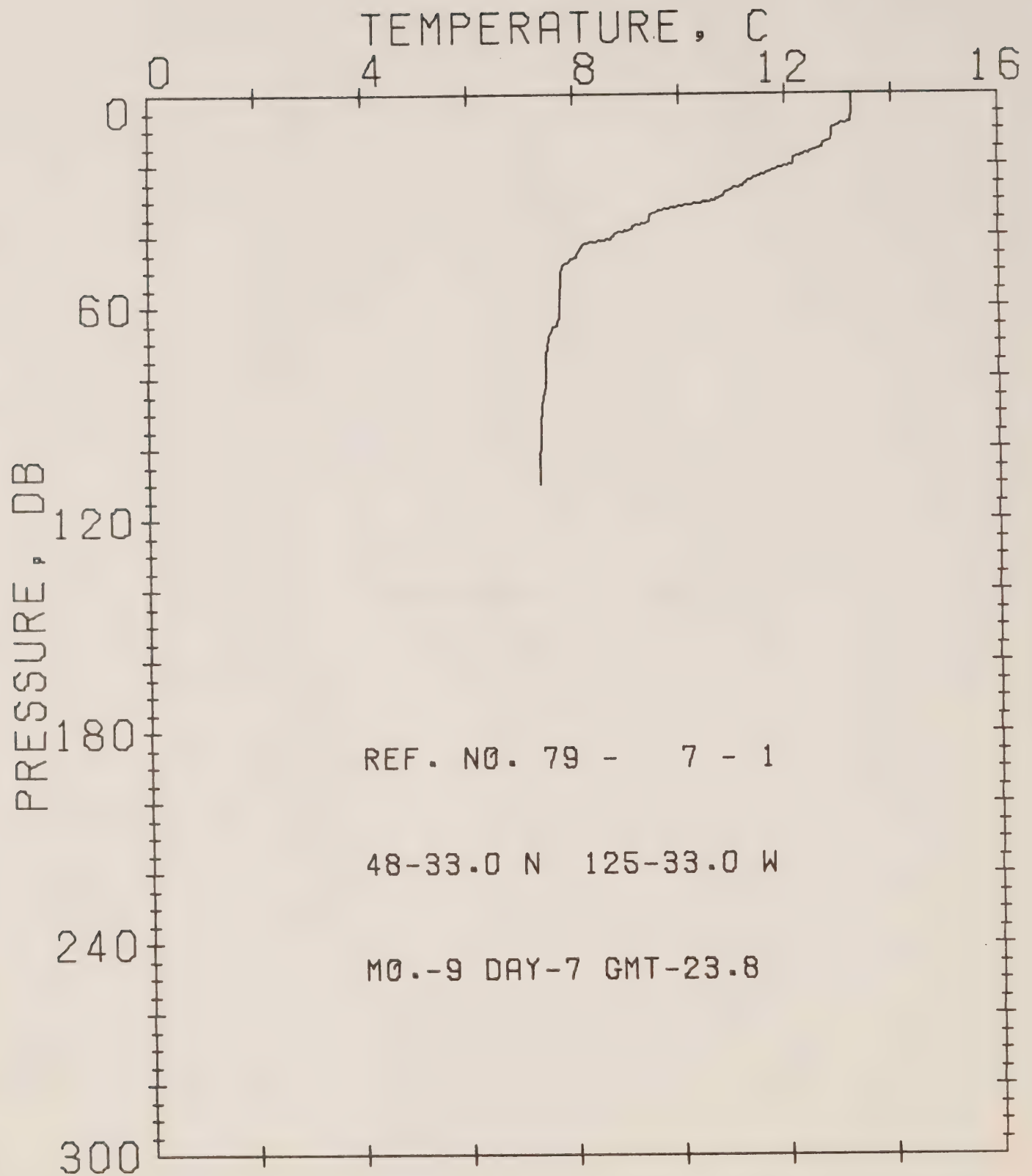
Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-79-7

(MEDS Reference No. 15-79-007)

Results of STD Observations

(P-79-7)



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 1

DATE 7/ 9/79

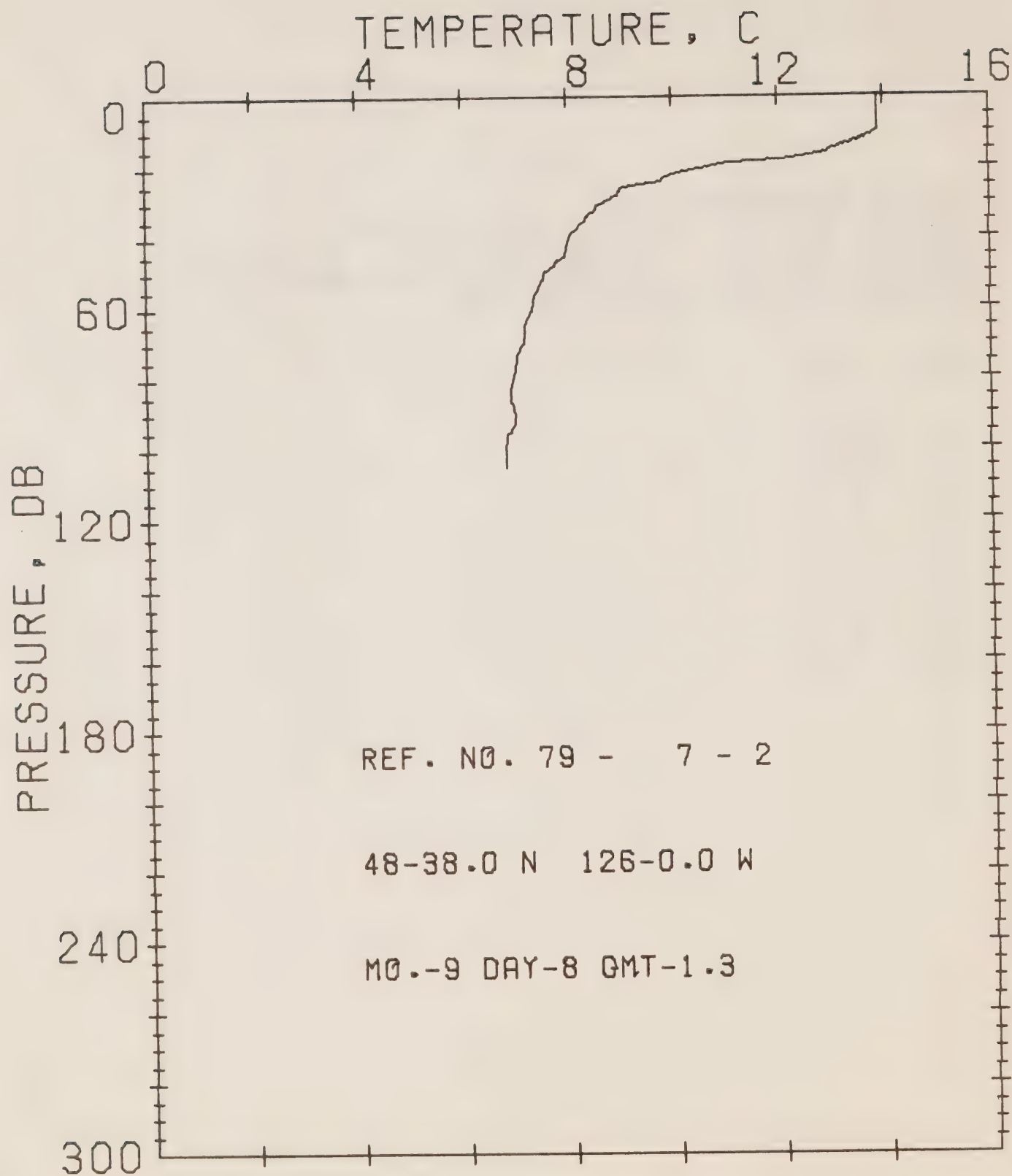
POSITION 48-33.0N, 125-33.0W GMT 23.8 STATION 1

RESULTS OF STP CAST 54 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.26
10	12.92
20	12.16
30	10.70
40	8.78
50	7.77
60	7.73
70	7.51
80	7.47
90	7.39
100	7.35
110	7.33



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 2

DATE 8/ 9/79

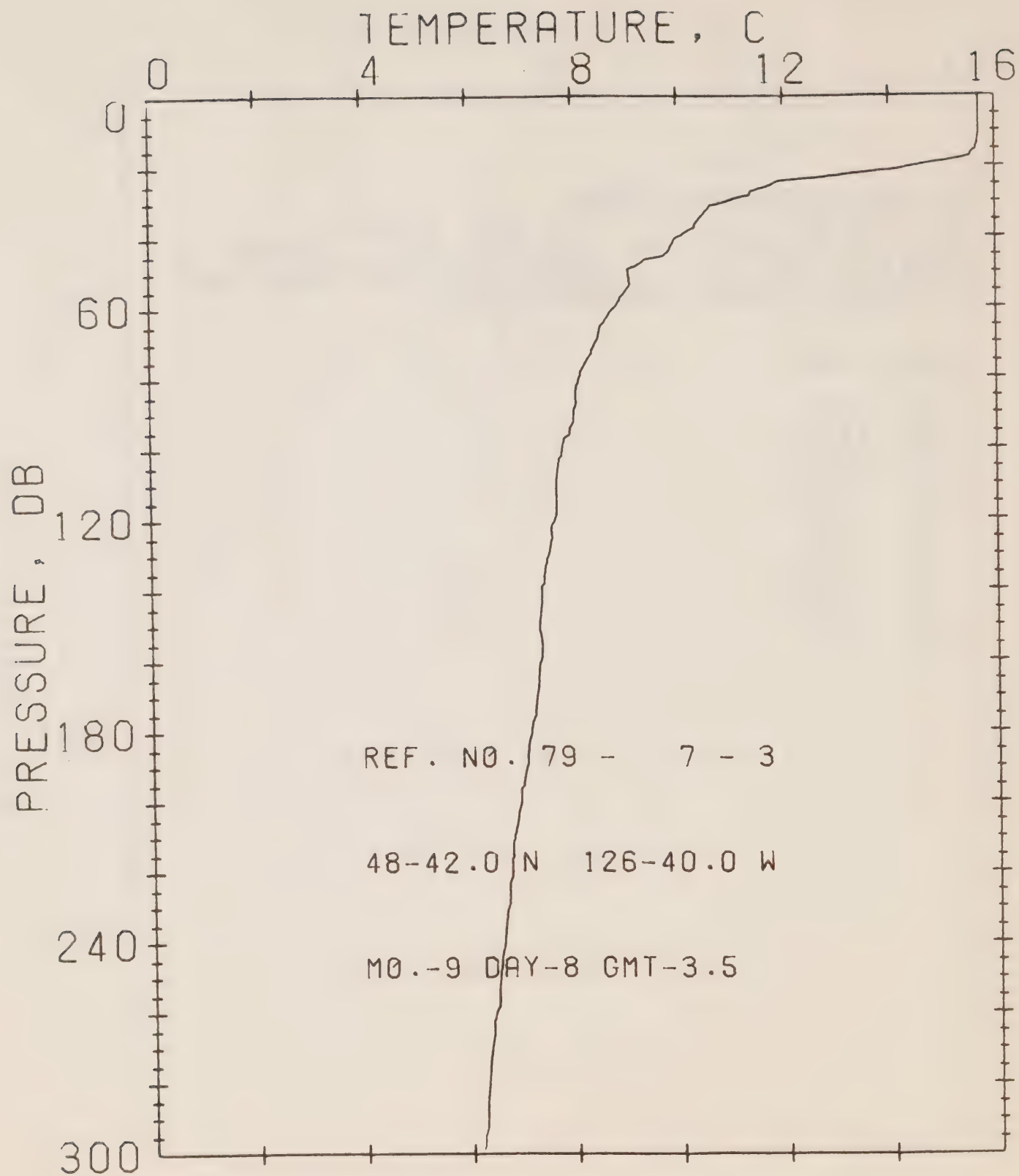
POSITION 48-38.0N, 126- .0W GMT 1.3 STATION 2

RESULTS OF STP CAST 64 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
-------	------

0	13.90
10	13.89
20	10.70
30	8.72
40	8.06
50	7.56
60	7.35
70	7.18
80	6.98
90	6.98
100	6.81



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 3

DATE 8/ 9/79

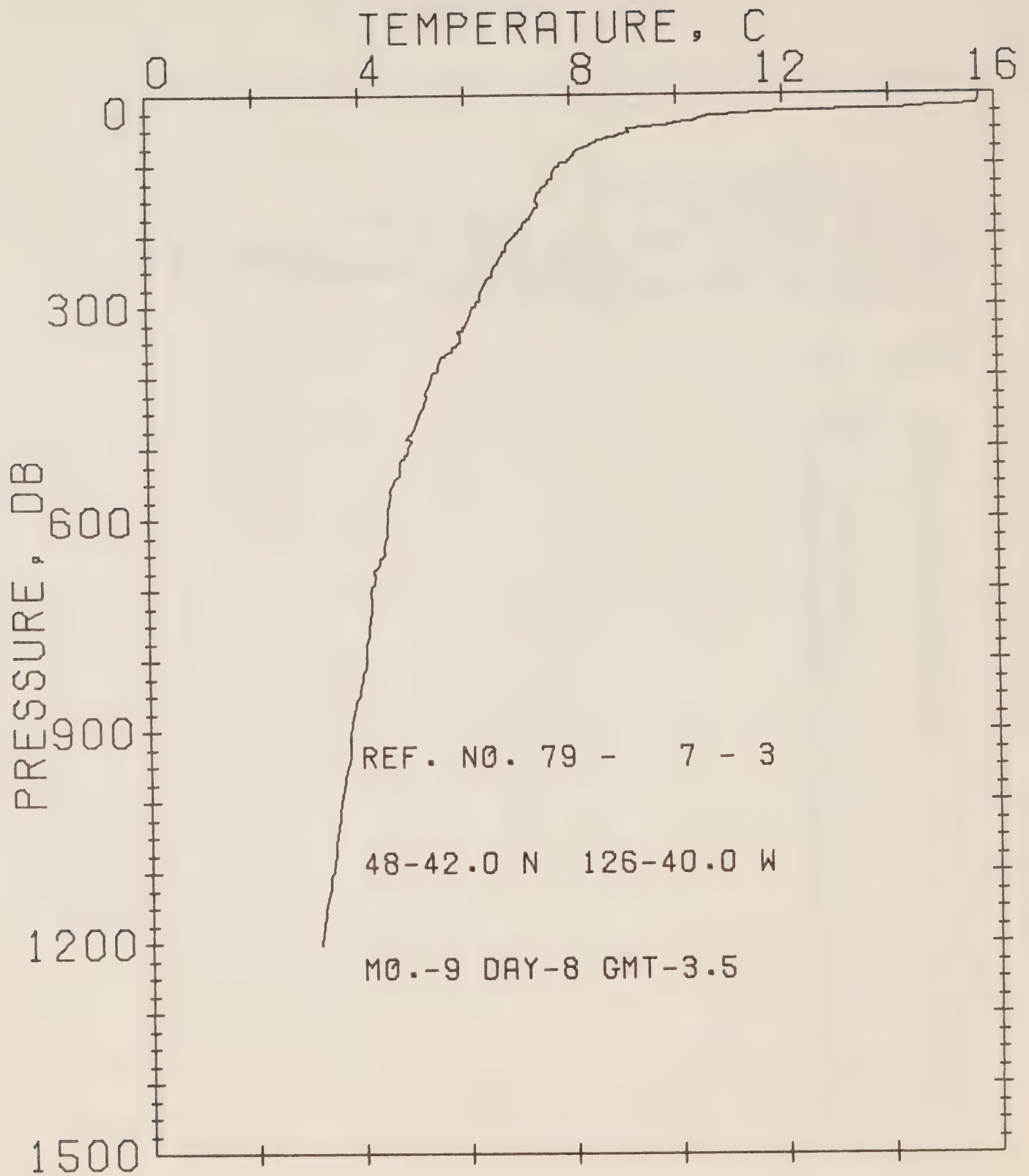
POSITION 48-42.0N, 126-40.0W GMT 3.5 STATION 3

RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	15.71
10	15.71
20	14.42
30	10.90
40	9.96
50	9.07
60	8.81
70	8.44
80	8.13
90	8.03
100	7.80
110	7.69
120	7.65
130	7.51
140	7.39
150	7.33
160	7.36
170	7.28
180	7.16
190	7.08
200	6.95
210	6.83
220	6.77
230	6.69
240	6.62
250	6.53
260	6.44
270	6.37
280	6.29
290	6.27
300	6.14



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 3

DATE 8/ 9/79

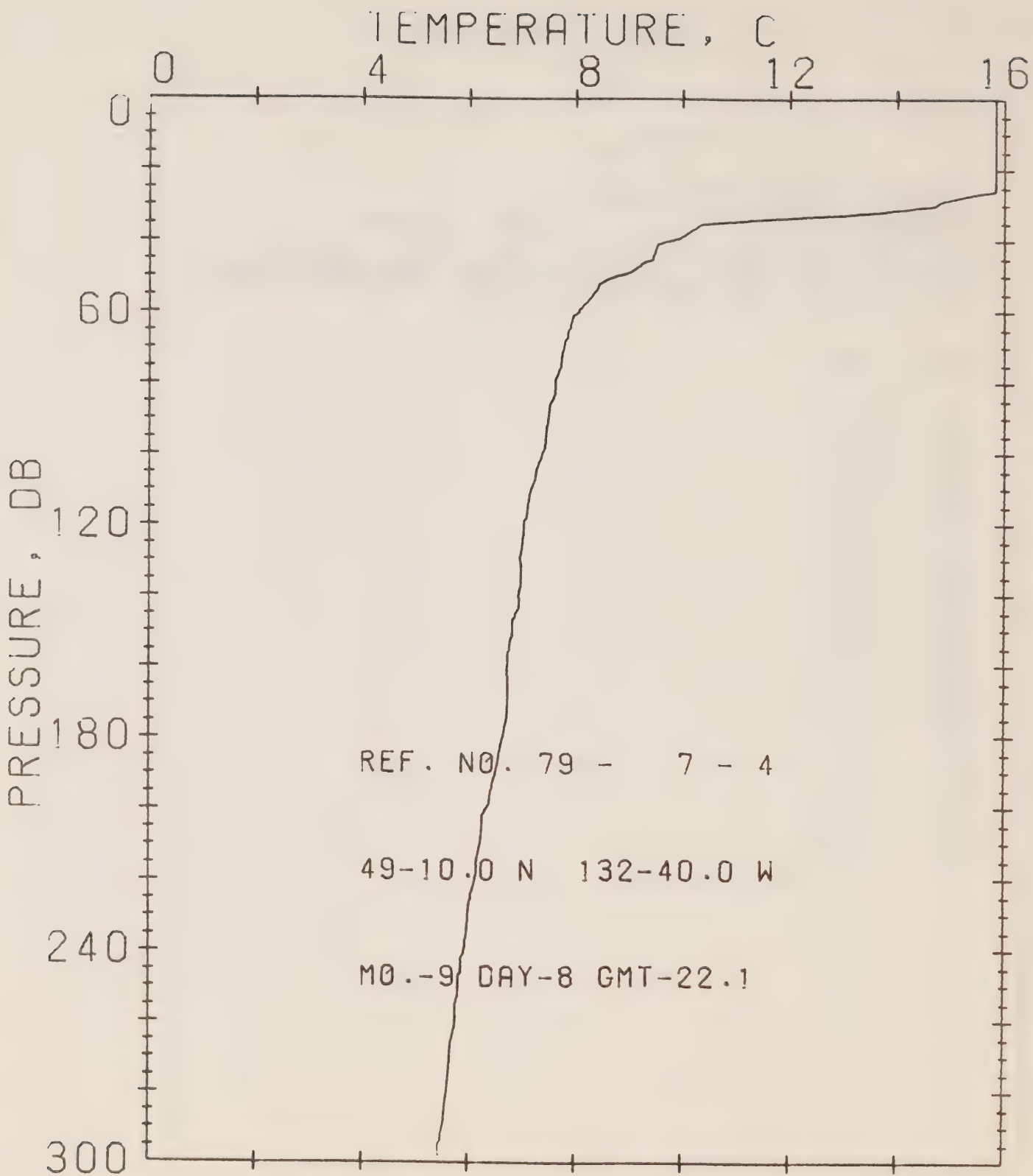
POSITION 48-42.0N, 126-40.0W GMT 3.5 STATION 3

RESULTS OF STP CAST 305 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	15.71
10	15.71
20	14.42
30	10.90
50	9.07
75	8.28
100	7.80
125	7.59
150	7.33
175	7.25
200	6.95
225	6.72
250	6.53
300	6.14
400	5.34
500	4.91
600	4.50
800	4.09
1000	3.58
1200	3.18



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 4

DATE 8/ 9/79

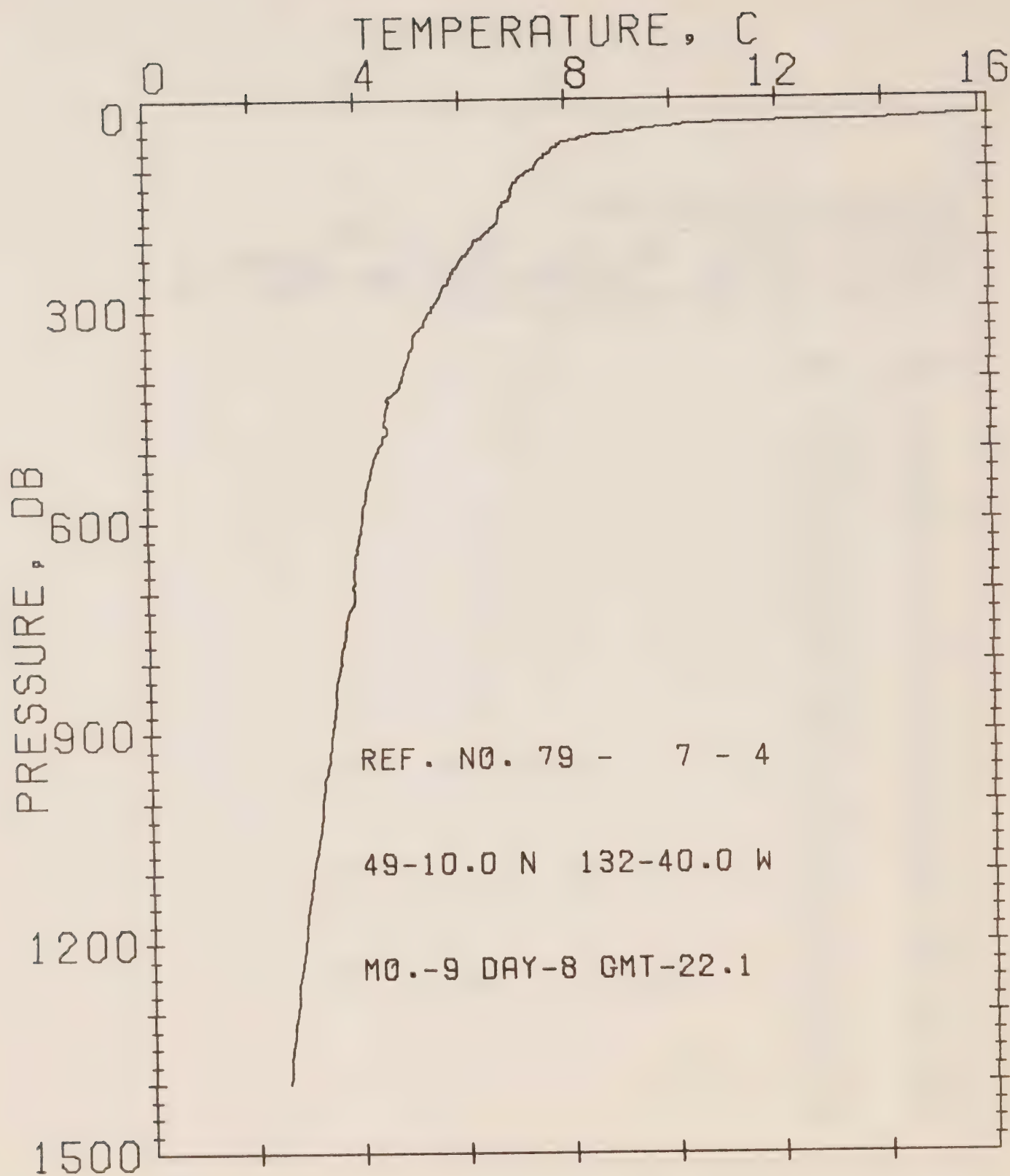
POSITION 49-10.0N, 132-40.0W GMT 22.1 STATION 7

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	15.84
10	15.84
20	15.84
30	14.71
40	9.77
50	8.76
60	8.08
70	7.79
80	7.63
90	7.49
100	7.38
110	7.18
120	7.04
130	6.97
140	6.94
150	6.82
160	6.74
170	6.74
180	6.65
190	6.51
200	6.35
210	6.23
220	6.14
230	6.01
240	5.93
250	5.80
260	5.75
270	5.67
280	5.61
290	5.54
300	5.44



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 4

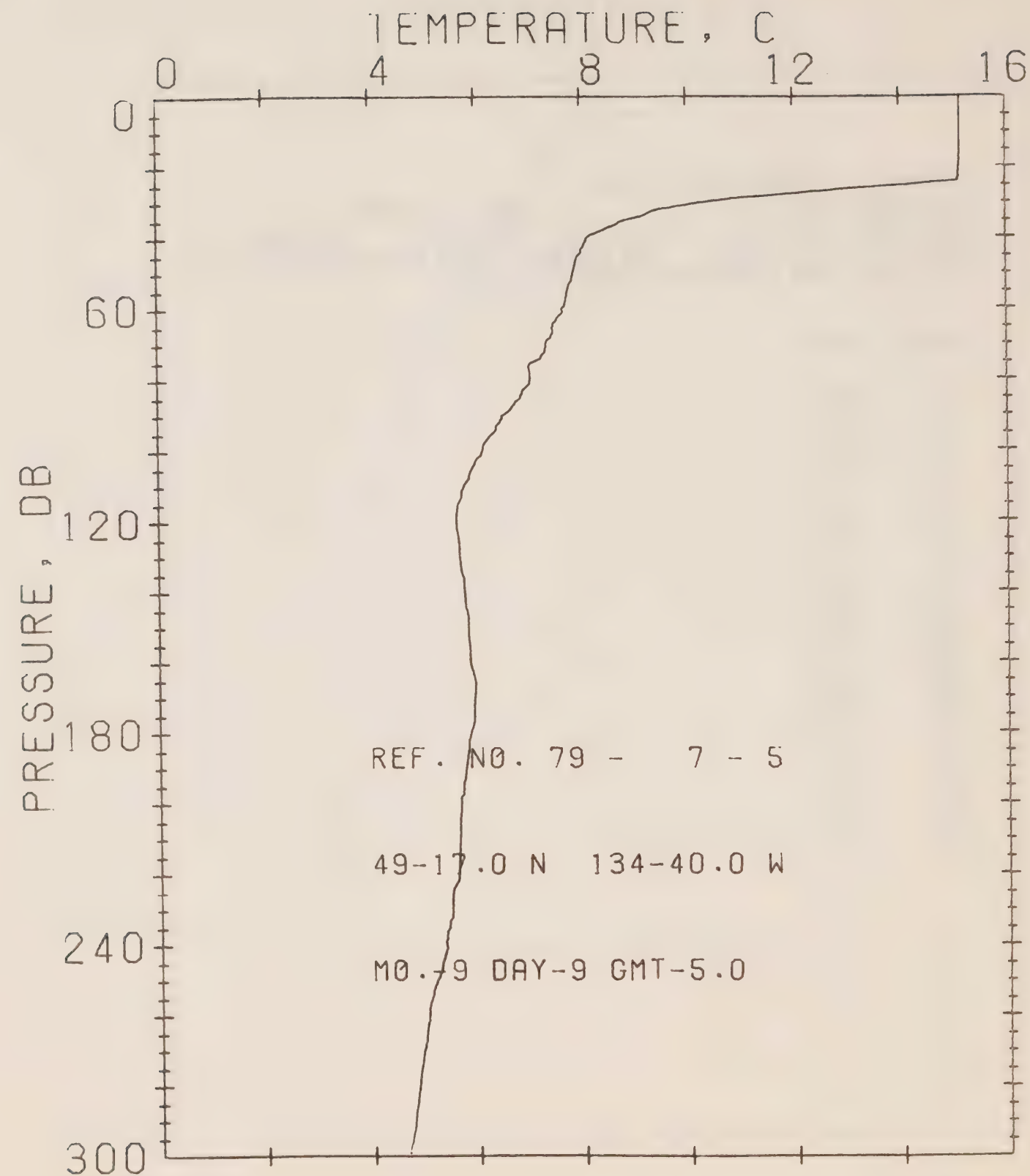
DATE 8/ 9/79

POSITION 49-10.0N, 132-40.0W GMT 22.1 STATION 7

RESULTS OF STP CAST 271 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	15.84
10	15.84
20	15.84
30	14.71
50	8.76
75	7.73
100	7.38
125	7.01
150	6.82
175	6.71
200	6.35
225	6.04
250	5.80
300	5.44
400	4.87
500	4.38
600	4.06
800	3.64
1000	3.26
1200	2.88



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 5

DATE 9/ 9/79

POSITION 49-17.0N, 134-40.0W

GMT 5.0

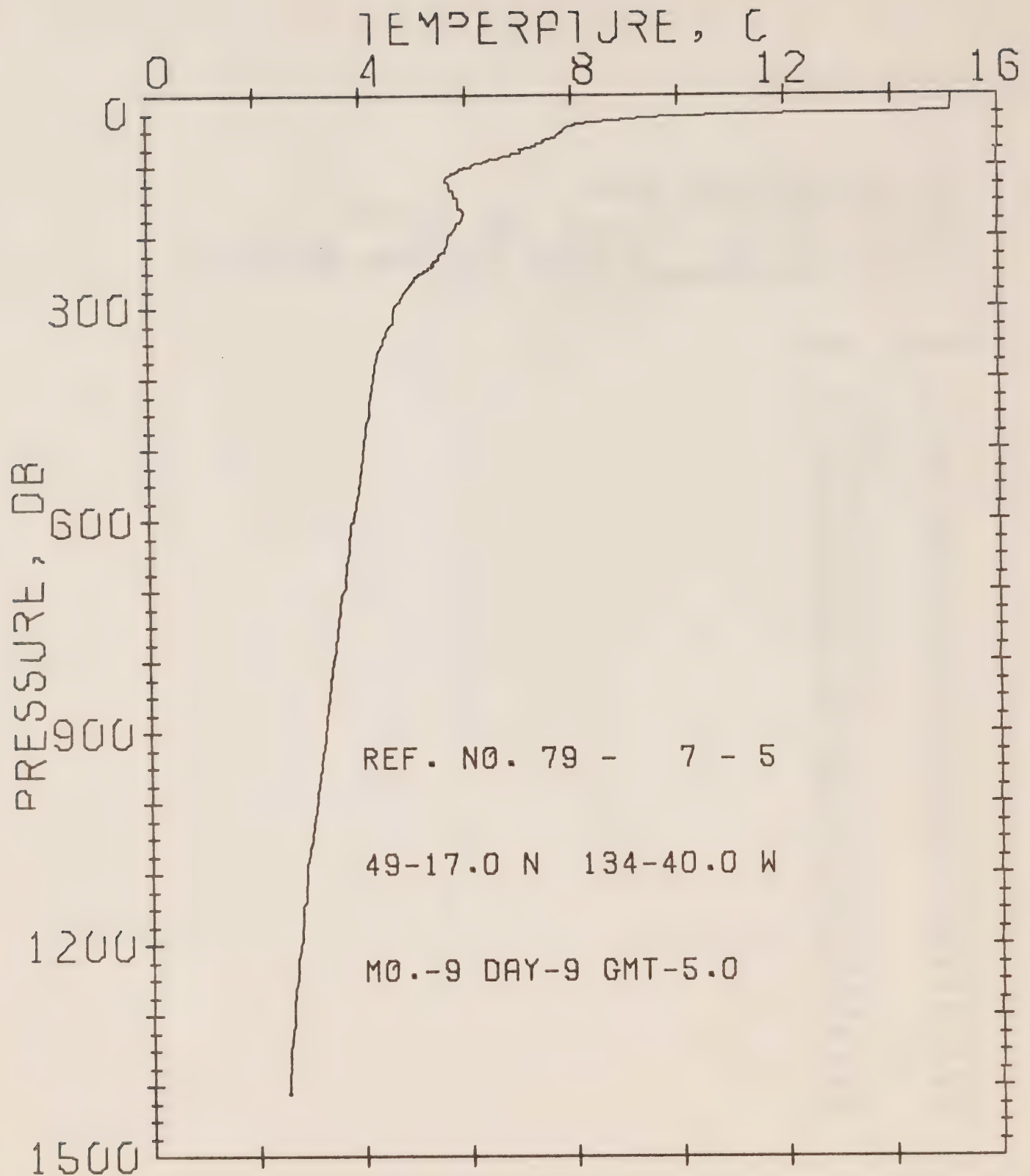
STATION 8

RESULTS OF STP CAST 132 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	15.15
10	15.15
20	15.13
30	10.24
40	8.14
50	7.86
60	7.66
70	7.36
80	7.03
90	6.52
100	6.14
110	5.78
120	5.63
130	5.68
140	5.77
150	5.84
160	5.88
170	5.96
180	5.87
190	5.79
200	5.68
210	5.65
220	5.62
230	5.49
240	5.37
250	5.21
260	5.04
270	4.93
280	4.84
290	4.76
300	4.64



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 5

DATE 9/ 9/79

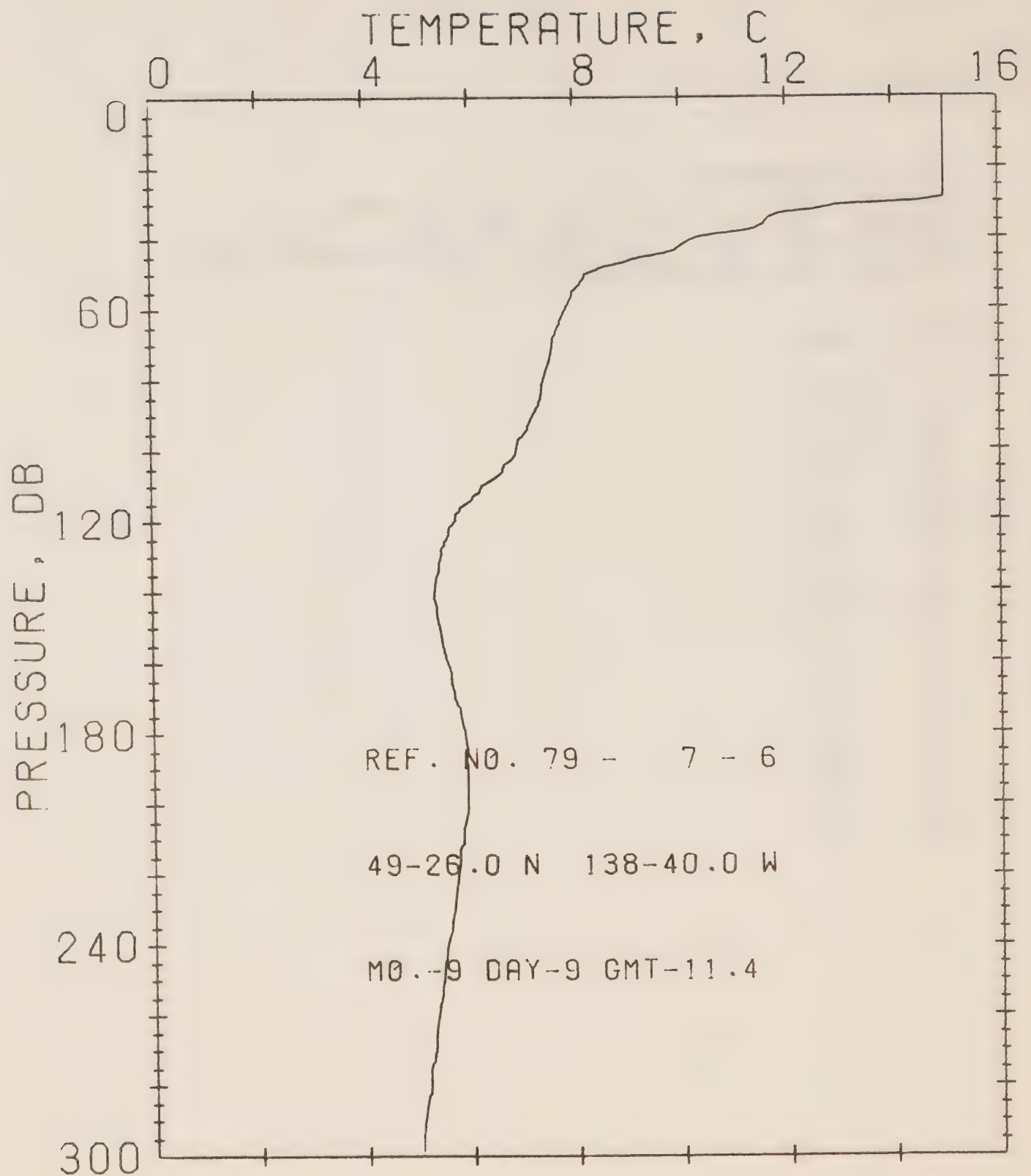
POSITION 49-17.0N, 134-40.0W GMT 5.0 STATION 8

RESULTS OF STP CAST 227 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	15.15
10	15.15
20	15.13
30	10.24
50	7.86
75	7.03
100	6.14
125	5.65
150	5.84
175	5.95
200	5.68
225	5.51
250	5.21
300	4.64
400	4.23
500	4.04
600	3.84
800	3.45
1000	3.10
1200	2.79



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 6

DATE 9/ 9/79

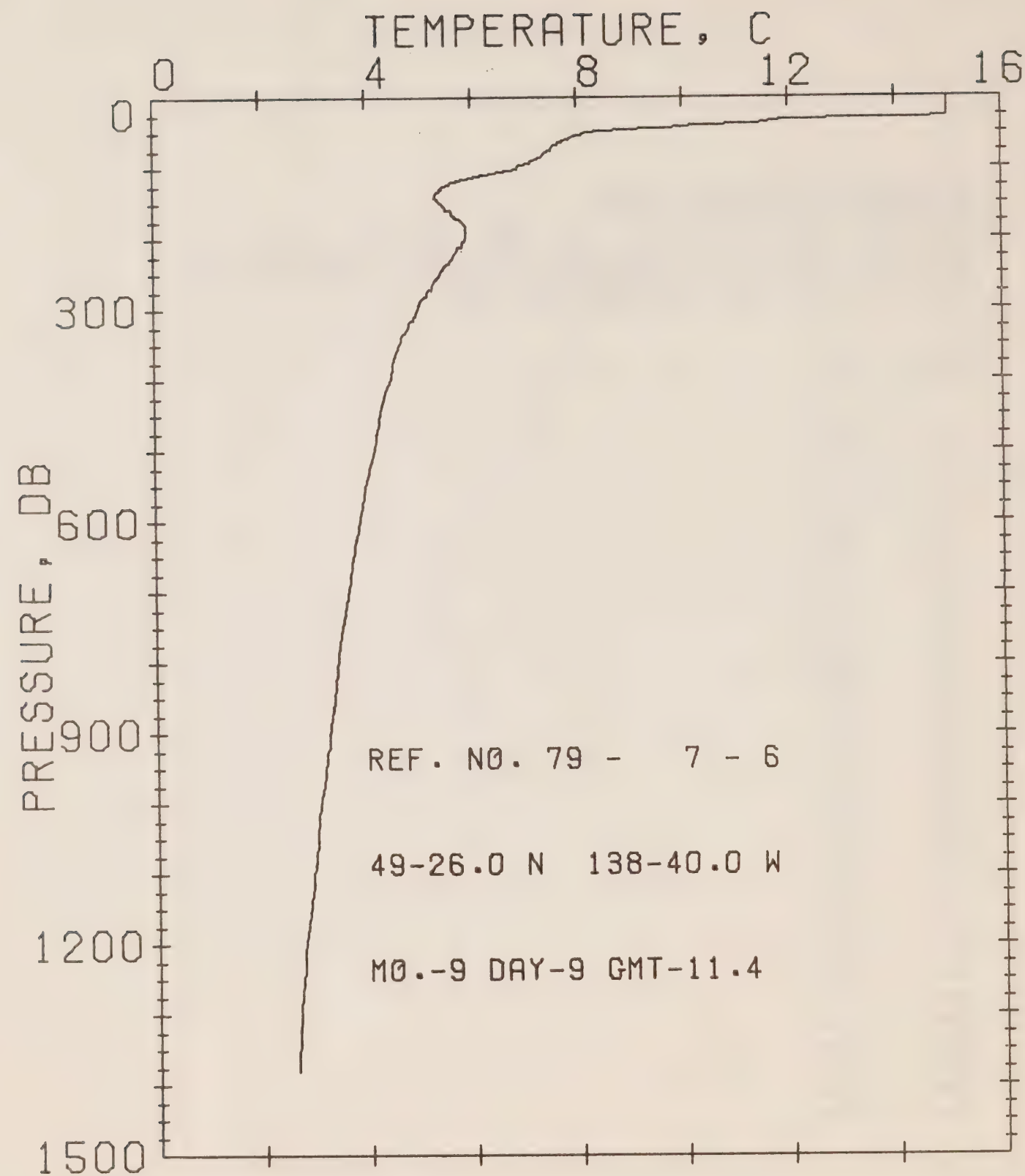
POSITION 49-26.0N, 138-40.0W GMT 11.4 STATION 9

RESULTS OF STP CAST 162 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.98
10	14.98
20	14.98
30	14.43
40	10.26
50	8.22
60	7.84
70	7.58
80	7.42
90	7.23
100	6.89
110	6.25
120	5.72
130	5.45
140	5.33
150	5.41
160	5.53
170	5.69
180	5.88
190	5.91
200	5.92
210	5.84
220	5.72
230	5.65
240	5.53
250	5.44
260	5.33
270	5.28
280	5.17
290	5.06
300	5.02



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 6

DATE 9/ 9/79

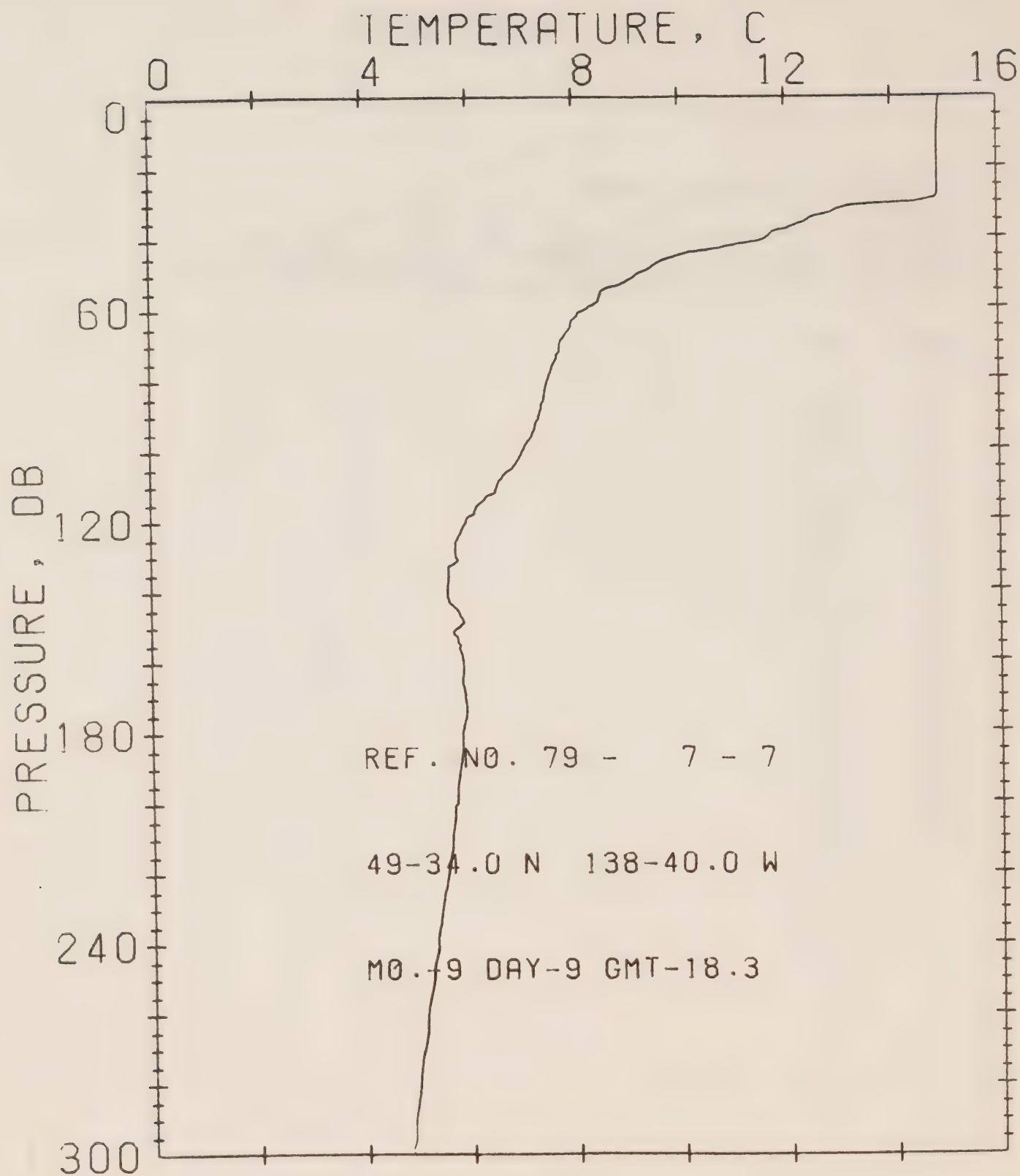
POSITION 49-26.0N, 138-40.0W GMT 11.4 STATION 9

RESULTS OF STP CAST 259 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.98
10	14.98
20	14.98
30	14.43
50	8.22
75	7.51
100	6.89
125	5.56
150	5.41
175	5.79
200	5.92
225	5.68
250	5.44
300	5.02
400	4.46
500	4.16
600	3.87
800	3.44
1000	3.07
1200	2.78



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 7

DATE 9/ 9/79

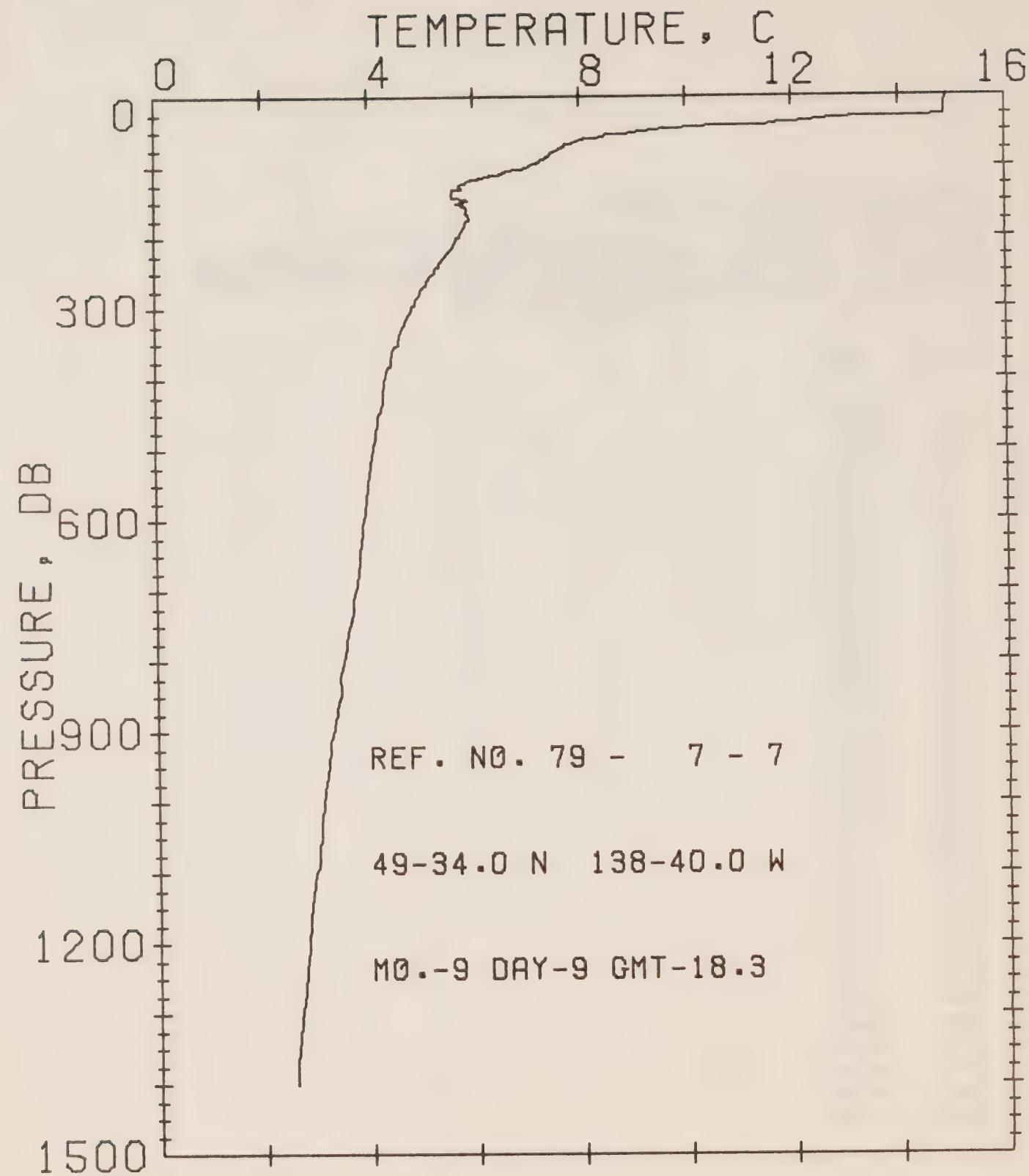
POSITION 49-34.0N, 138-40.0W GMT 18.3 STATION 10

RESULTS OF STP CAST 148 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.93
10	14.89
20	14.89
30	14.44
40	11.66
50	9.23
60	8.28
70	7.73
80	7.51
90	7.35
100	7.03
110	6.54
120	5.96
130	5.73
140	5.58
150	5.80
160	5.85
170	5.89
180	5.84
190	5.79
200	5.73
210	5.63
220	5.53
230	5.42
240	5.33
250	5.24
260	5.14
270	5.06
280	4.96
290	4.89
300	4.84



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 7

DATE 9/ 9/79

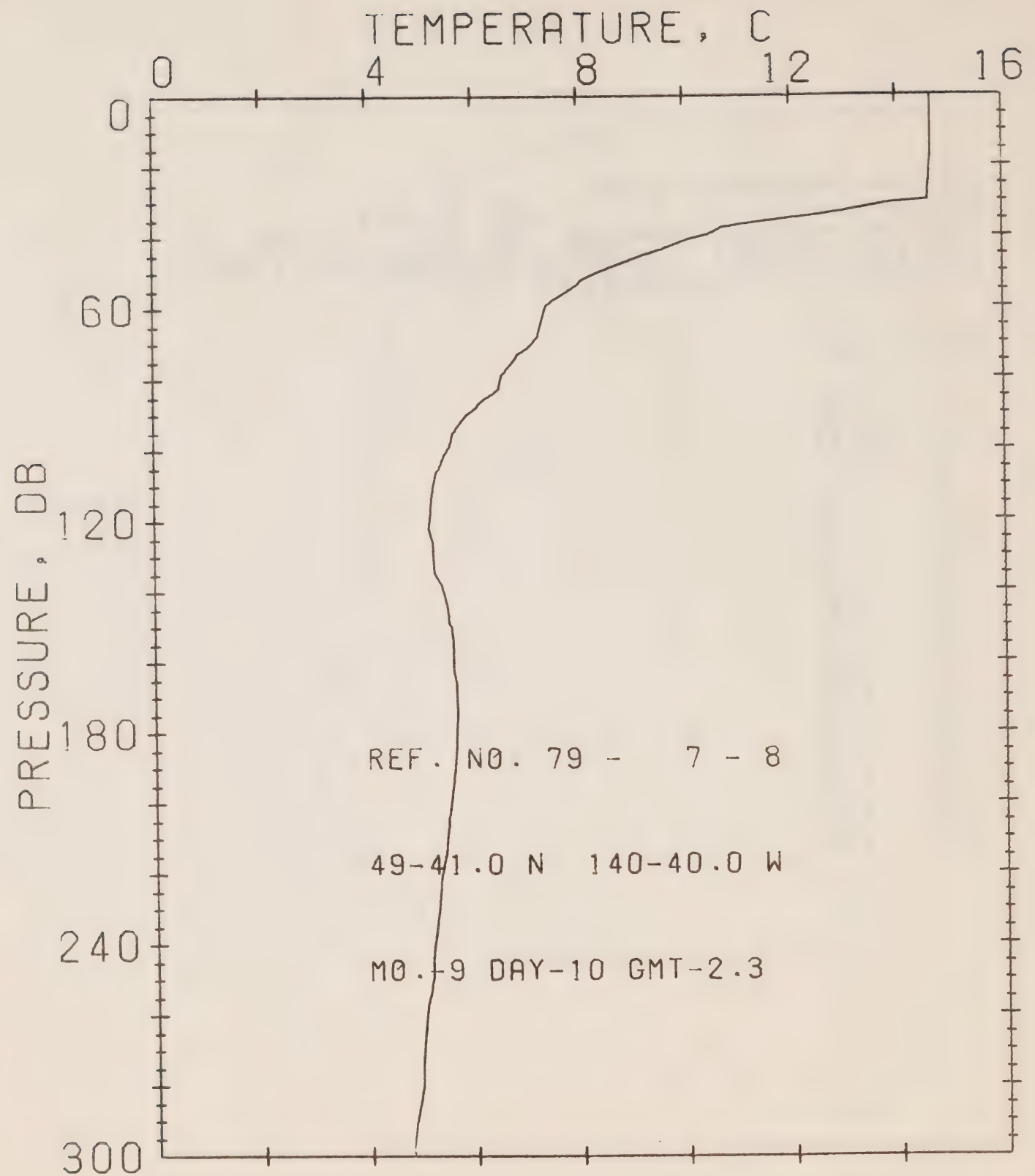
POSITION 49-34.0N, 138-40.0W GMT 18.3 STATION 10

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.93
10	14.89
20	14.89
30	14.44
50	9.23
75	7.62
100	7.03
125	5.77
150	5.80
175	5.91
200	5.73
225	5.46
250	5.24
300	4.84
400	4.31
500	4.09
600	3.90
800	3.50
1000	3.10
1200	2.81



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 8

DATE 10/ 9/79

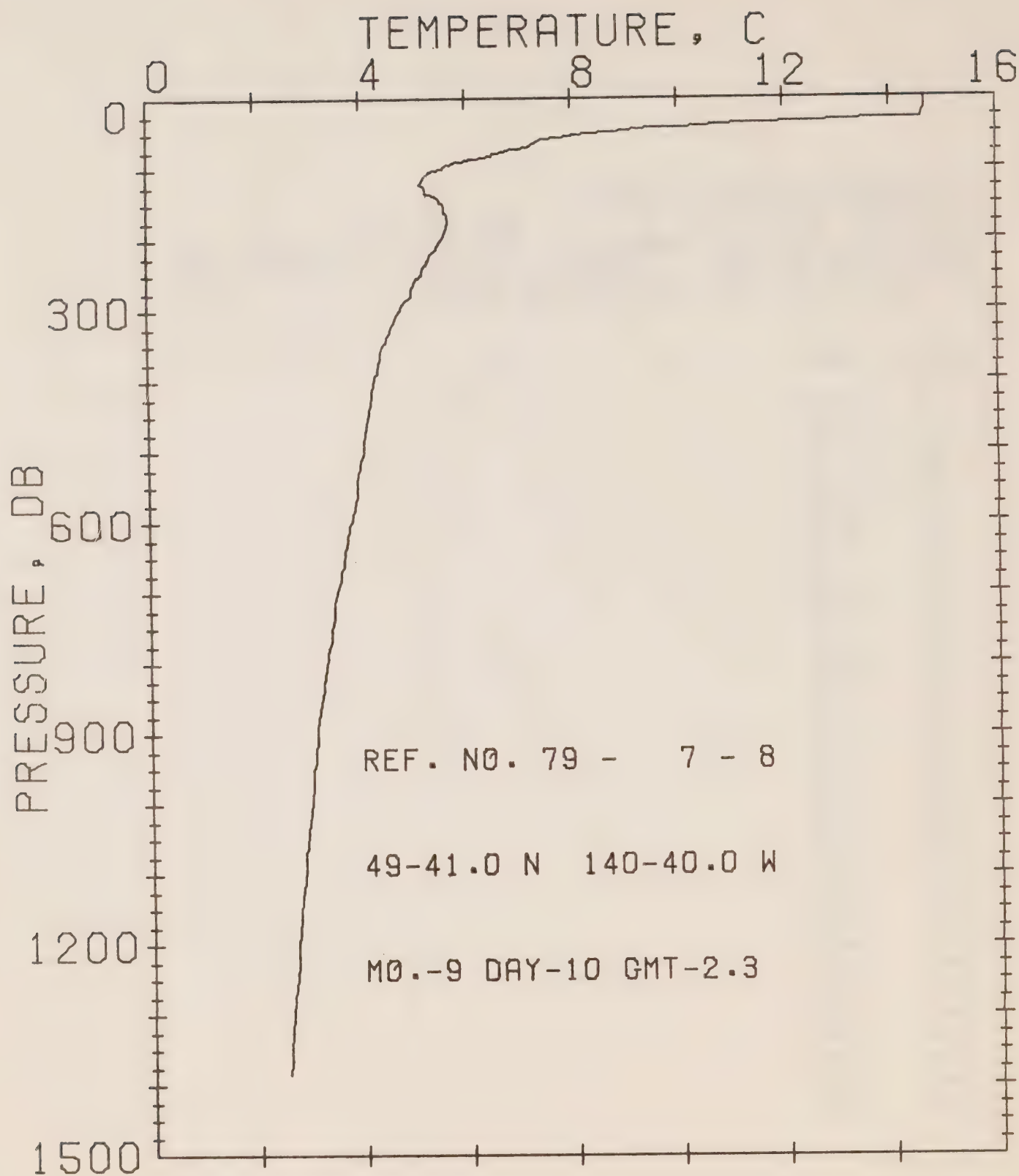
POSITION 49-41.0N, 140-40.0W GMT 2.3 STATION 11

RESULTS OF STP CAST 87 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.68
10	14.68
20	14.65
30	14.60
40	10.29
50	8.38
60	7.40
70	7.12
80	6.55
90	5.90
100	5.52
110	5.26
120	5.16
130	5.24
140	5.43
150	5.57
160	5.60
170	5.66
180	5.66
190	5.63
200	5.55
210	5.46
220	5.36
230	5.29
240	5.21
250	5.16
260	5.06
270	4.98
280	4.95
290	4.84
300	4.76



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 8

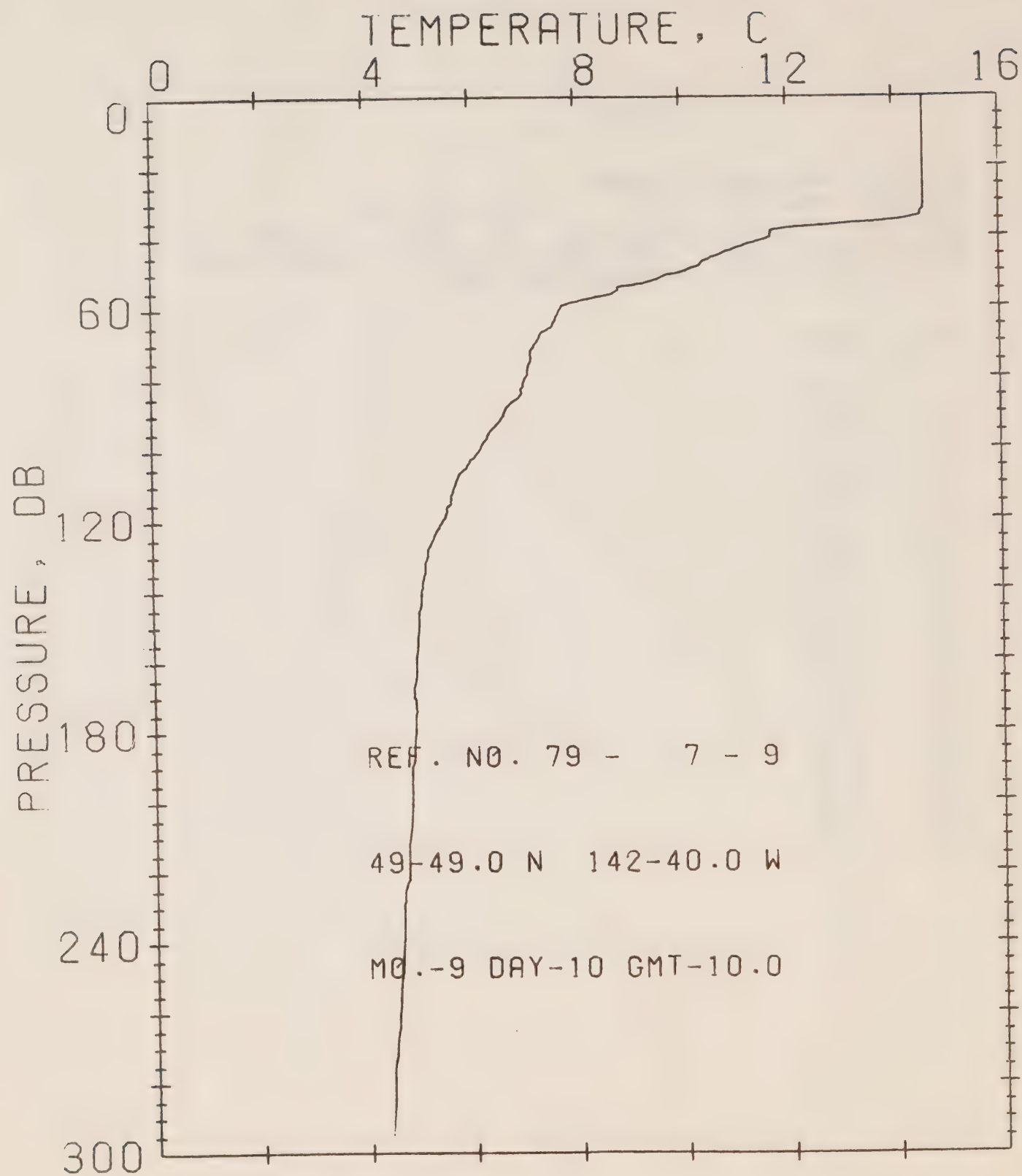
DATE 10/ 9/79

POSITION 49-41.0N, 140-40.0W GMT 2.3 STATION 11

RESULTS OF STP CAST 179 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
-------	------

0	14.68
10	14.68
20	14.65
30	14.60
50	8.38
75	6.77
100	5.52
125	5.21
150	5.57
175	5.67
200	5.55
225	5.32
250	5.16
300	4.76
400	4.25
500	4.04
600	3.81
800	3.31
1000	3.00
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 9

DATE 10/ 9/79

POSITION 49-49.0N, 142-40.0W

GMT 10.0

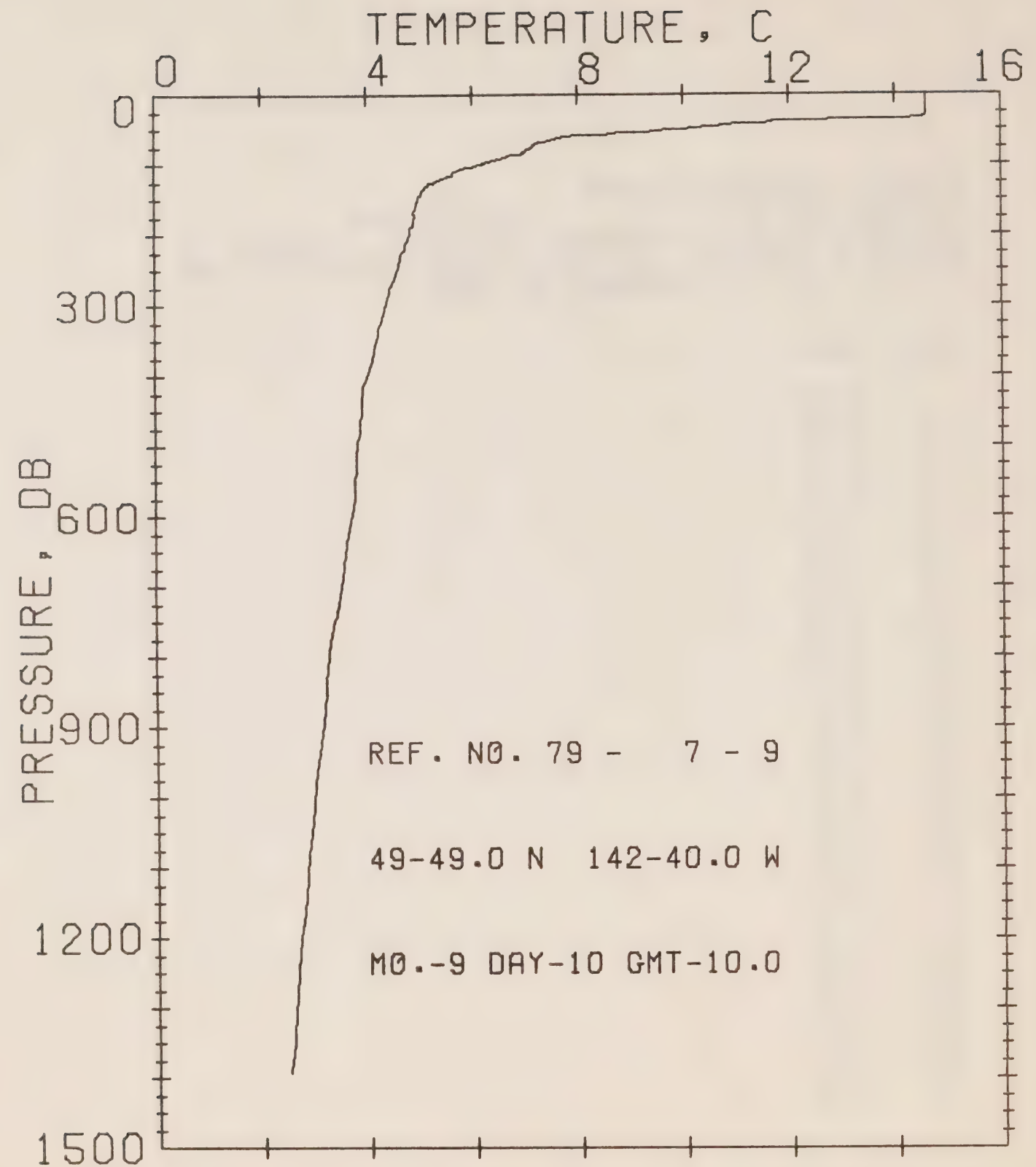
STATION 12

RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.58
10	14.58
20	14.58
30	14.58
40	11.72
50	10.04
60	7.74
70	7.25
80	7.04
90	6.65
100	6.19
110	5.70
120	5.47
130	5.17
140	5.04
150	4.99
160	4.94
170	4.88
180	4.90
190	4.84
200	4.82
210	4.77
220	4.75
230	4.65
240	4.62
250	4.58
260	4.54
270	4.47
280	4.43
290	4.40
300	4.37



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 9

DATE 10/ 9/79

POSITION 49-49.0N, 142-40.0W GMT 10.0

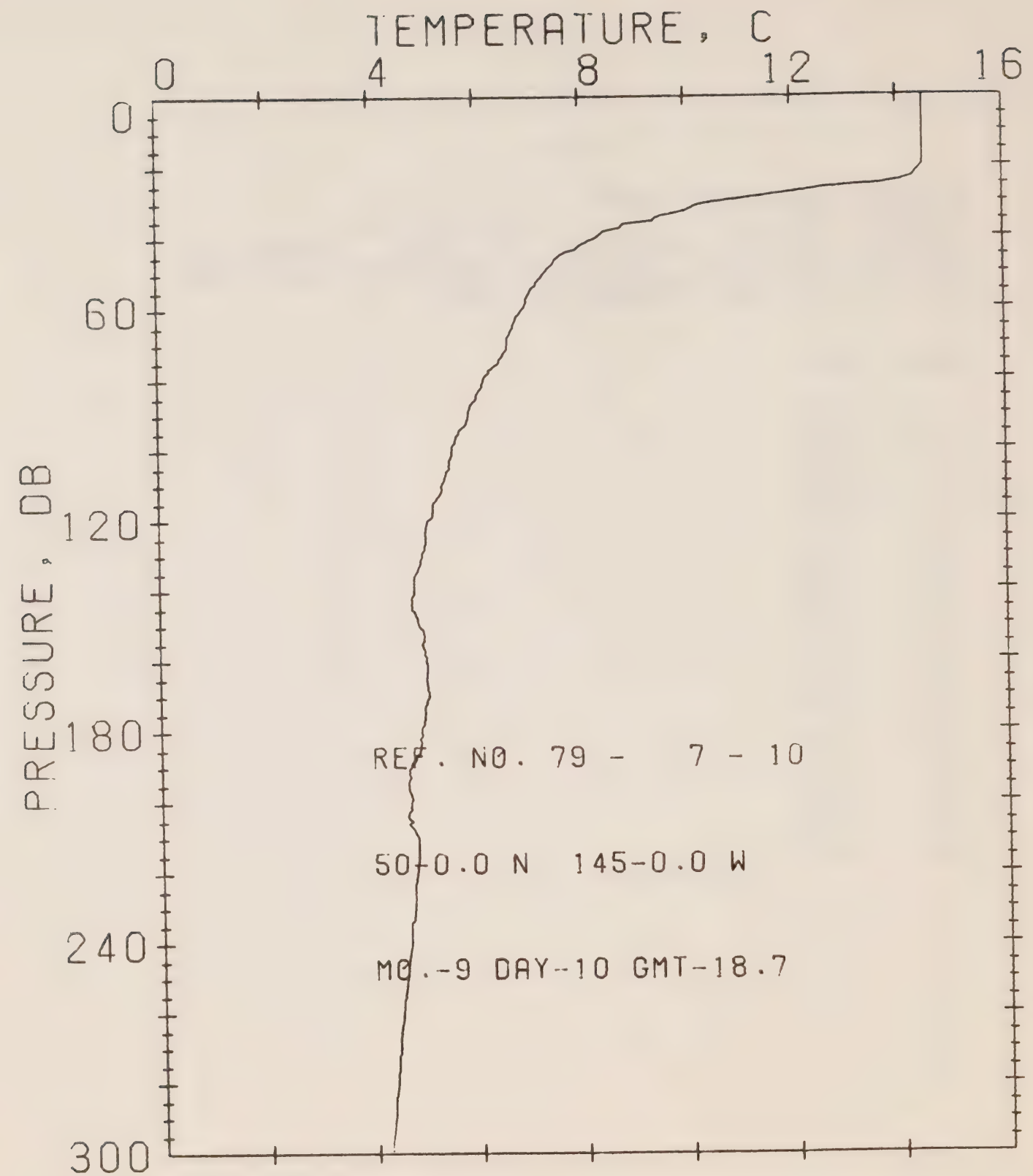
STATION 12

RESULTS OF STP CAST 206 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.58
10	14.58
20	14.58
30	14.58
50	10.04
75	7.14
100	6.19
125	5.28
150	4.99
175	4.92
200	4.82
225	4.68
250	4.58
300	4.37
400	4.02
500	3.82
600	3.69
800	3.25
1000	2.97
1200	2.71



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 10

DATE 10/ 9/79

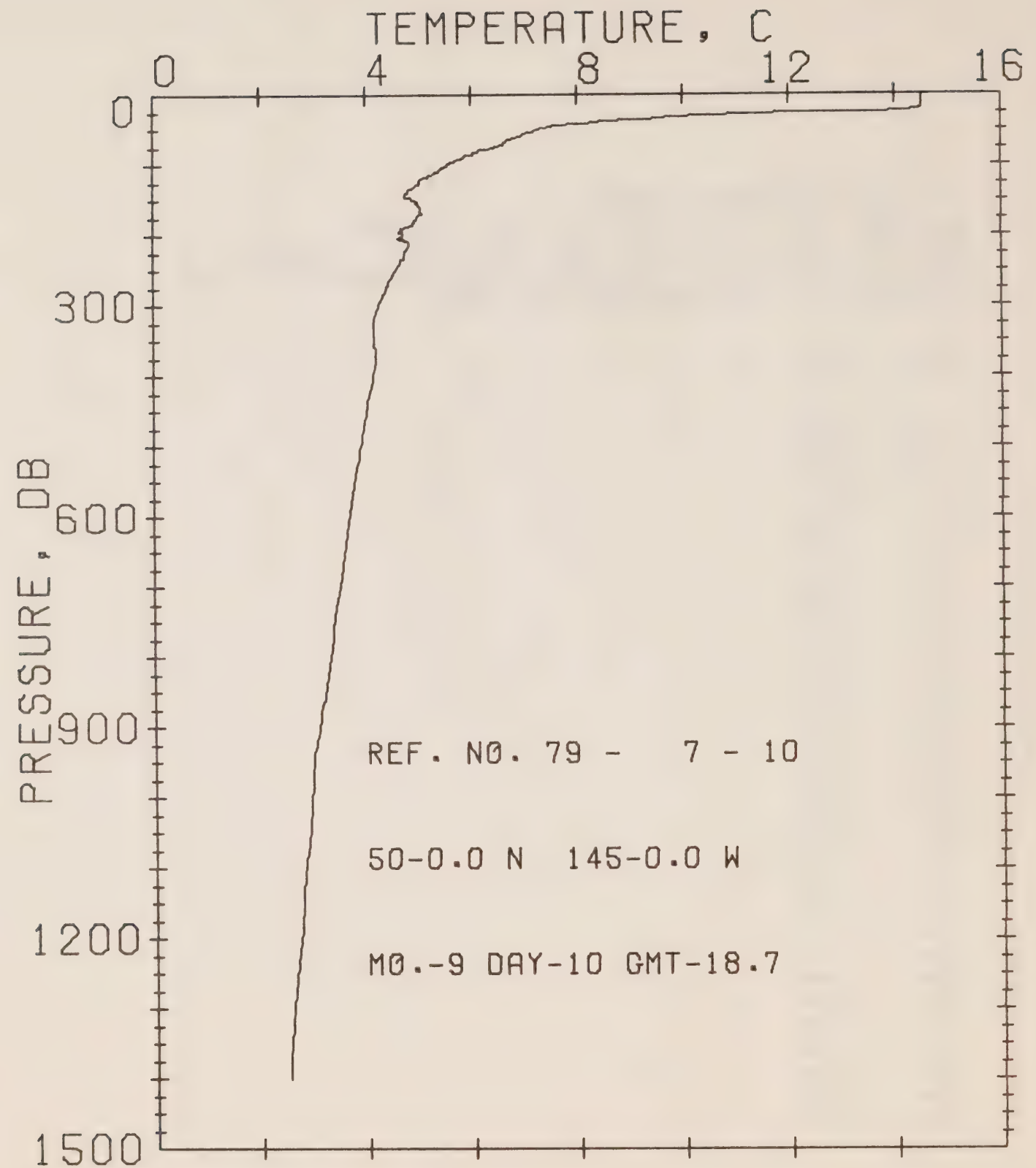
POSITION 50- .0N, 145- .0W GMT 18.7 STATION P

RESULTS OF STP CAST 179 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.51
10	14.51
20	14.51
30	10.53
40	8.31
50	7.34
60	6.90
70	6.61
80	6.16
90	5.87
100	5.54
110	5.34
120	5.07
130	4.96
140	4.79
150	4.87
160	5.02
170	5.08
180	4.92
190	4.70
200	4.69
210	4.82
220	4.78
230	4.74
240	4.66
250	4.58
260	4.50
270	4.43
280	4.36
290	4.31
300	4.25



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 10

DATE 10/ 9/79

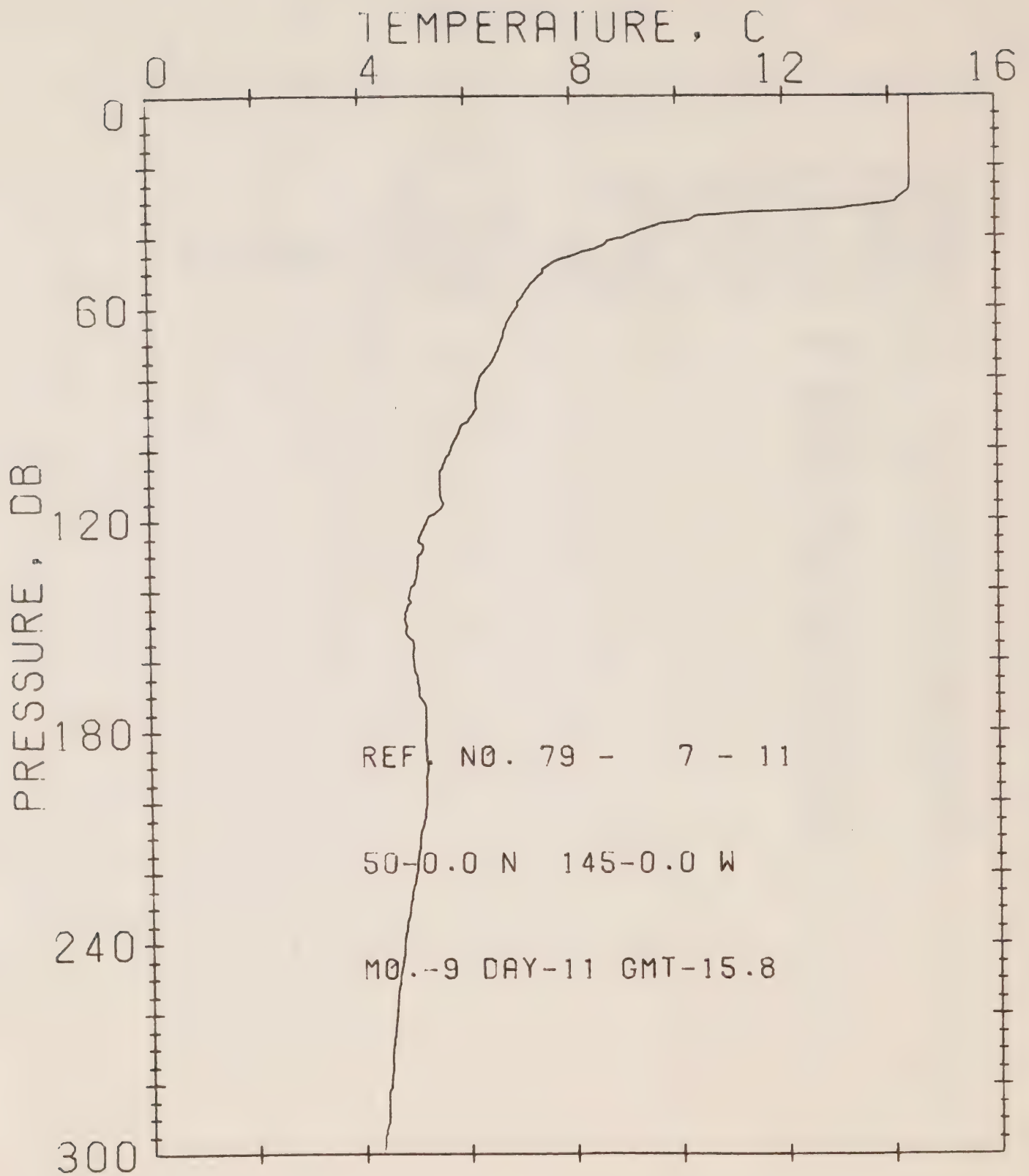
POSITION 50- .0N, 145- .0W GMT 18.7 STATION P

RESULTS OF STP CAST 259 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.51
10	14.51
20	14.51
30	10.53
50	7.34
75	6.45
100	5.54
125	5.03
150	4.87
175	4.98
200	4.69
225	4.76
250	4.58
300	4.25
400	4.13
500	3.89
600	3.67
800	3.30
1000	2.94
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 11

DATE 11/ 9/79

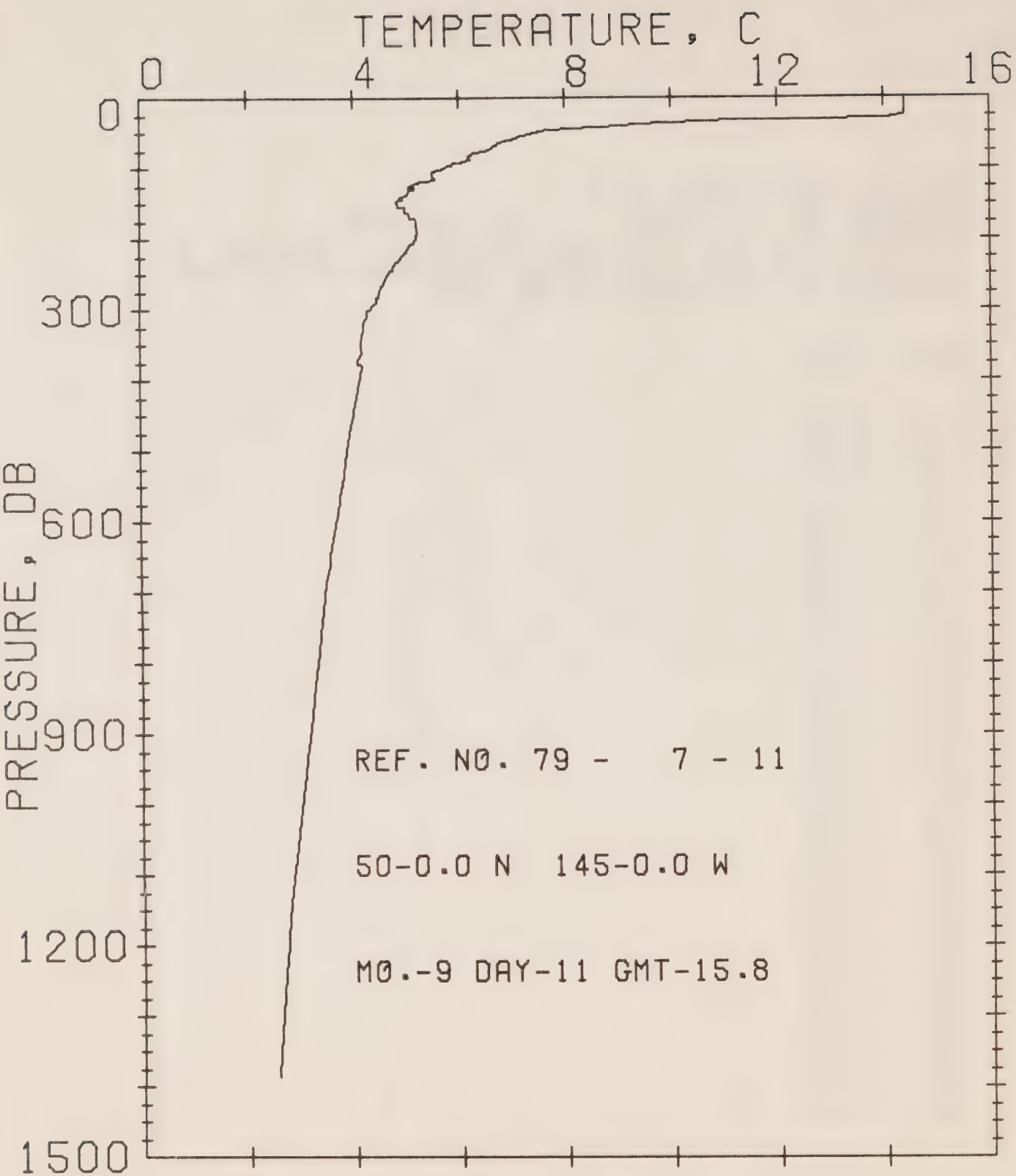
POSITION 50- .0N, 145- .0W GMT 15.8 STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.41
10	14.41
20	14.41
30	14.12
40	9.01
50	7.48
60	6.98
70	6.66
80	6.28
90	6.13
100	5.70
110	5.49
120	5.25
130	5.08
140	4.93
150	4.85
160	4.97
170	5.08
180	5.20
190	5.22
200	5.19
210	5.08
220	4.99
230	4.87
240	4.76
250	4.67
260	4.59
270	4.52
280	4.48
290	4.42
300	4.30



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 11

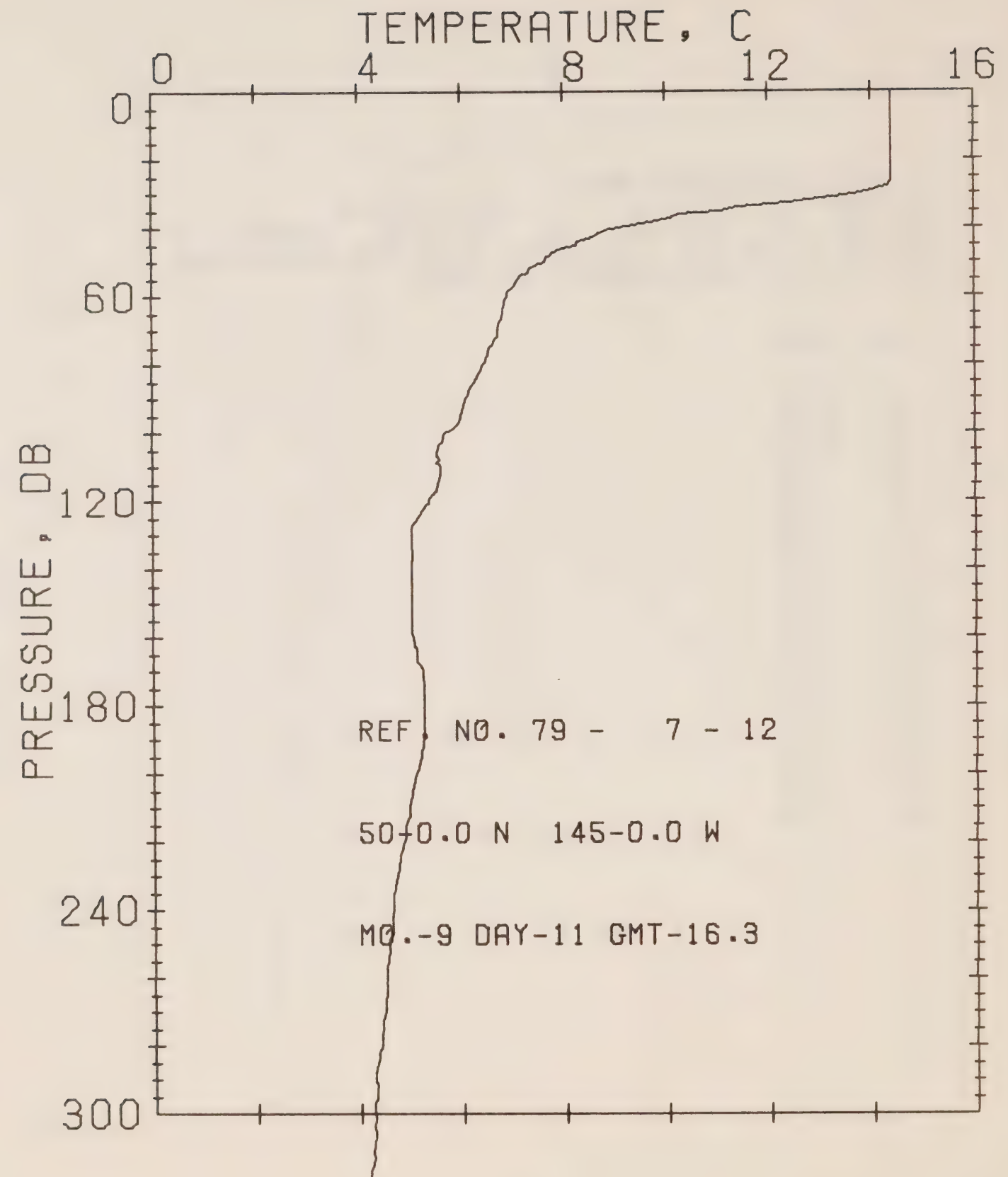
DATE 11/ 9/79

POSITION 50- .0N, 145- .0W GMT 15.8 STATION P

RESULTS OF STP CAST 228 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.41
10	14.41
20	14.41
30	14.12
50	7.48
75	6.50
100	5.70
125	5.10
150	4.85
175	5.19
200	5.19
225	4.92
250	4.67
300	4.30
400	4.11
500	3.88
600	3.67
800	3.30
1000	2.99
1200	2.72



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 12

DATE 11/ 9/79

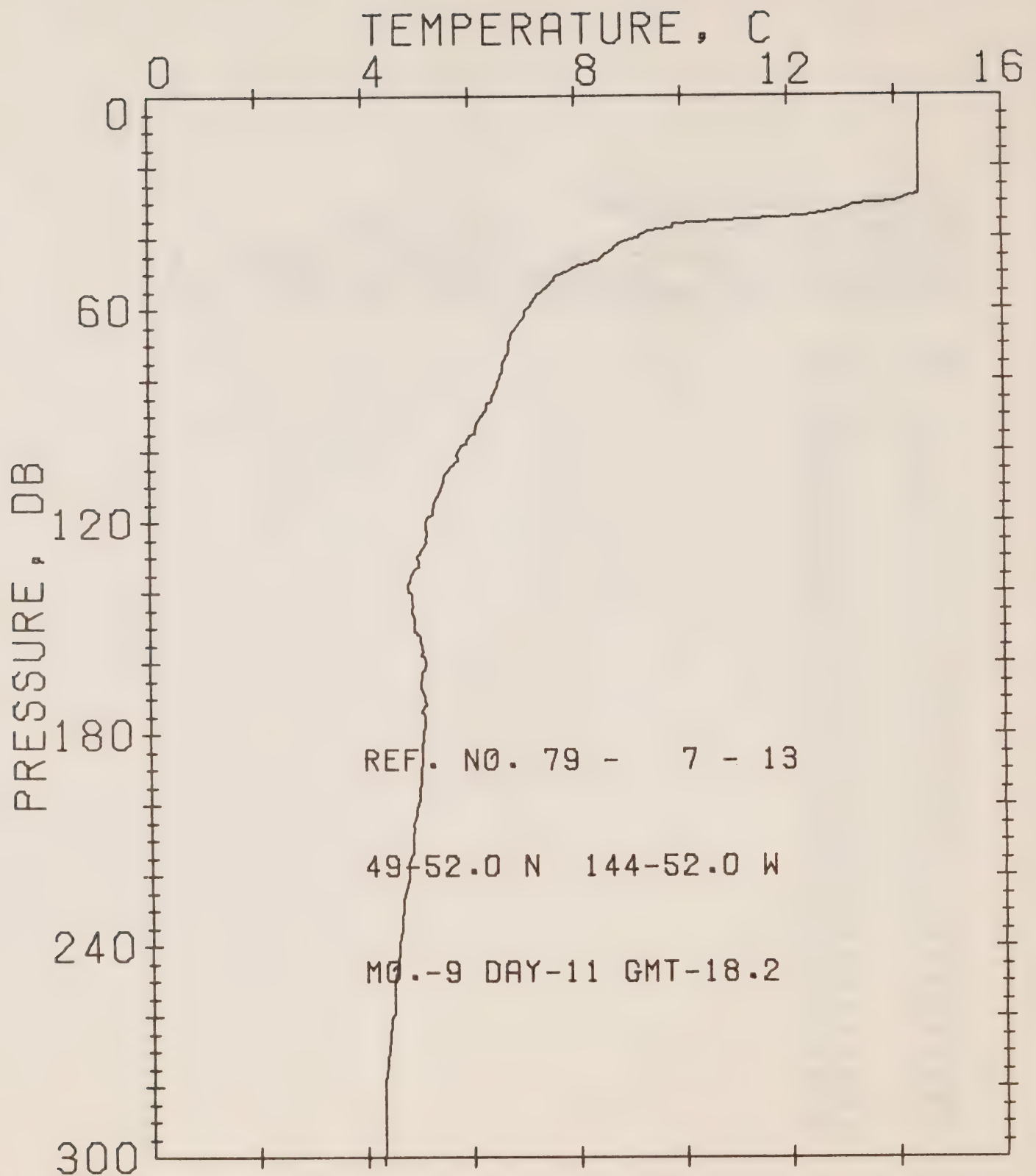
POSITION 50- .0N, 145- .0W GMT 16.3 STATION P

RESULTS OF STP CAST 167 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.40
10	14.40
20	14.39
30	13.85
40	9.12
50	7.65
60	6.91
70	6.72
80	6.44
90	6.11
100	5.67
110	5.59
120	5.37
130	5.01
140	5.01
150	5.01
160	5.02
170	5.22
180	5.25
190	5.24
200	5.10
210	4.97
220	4.87
230	4.72
240	4.64
250	4.57
260	4.51
270	4.48
280	4.41
290	4.27
300	4.23



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 13

DATE 11/ 9/79

POSITION 49-52.0N, 144-52.0W

GMT 18.2

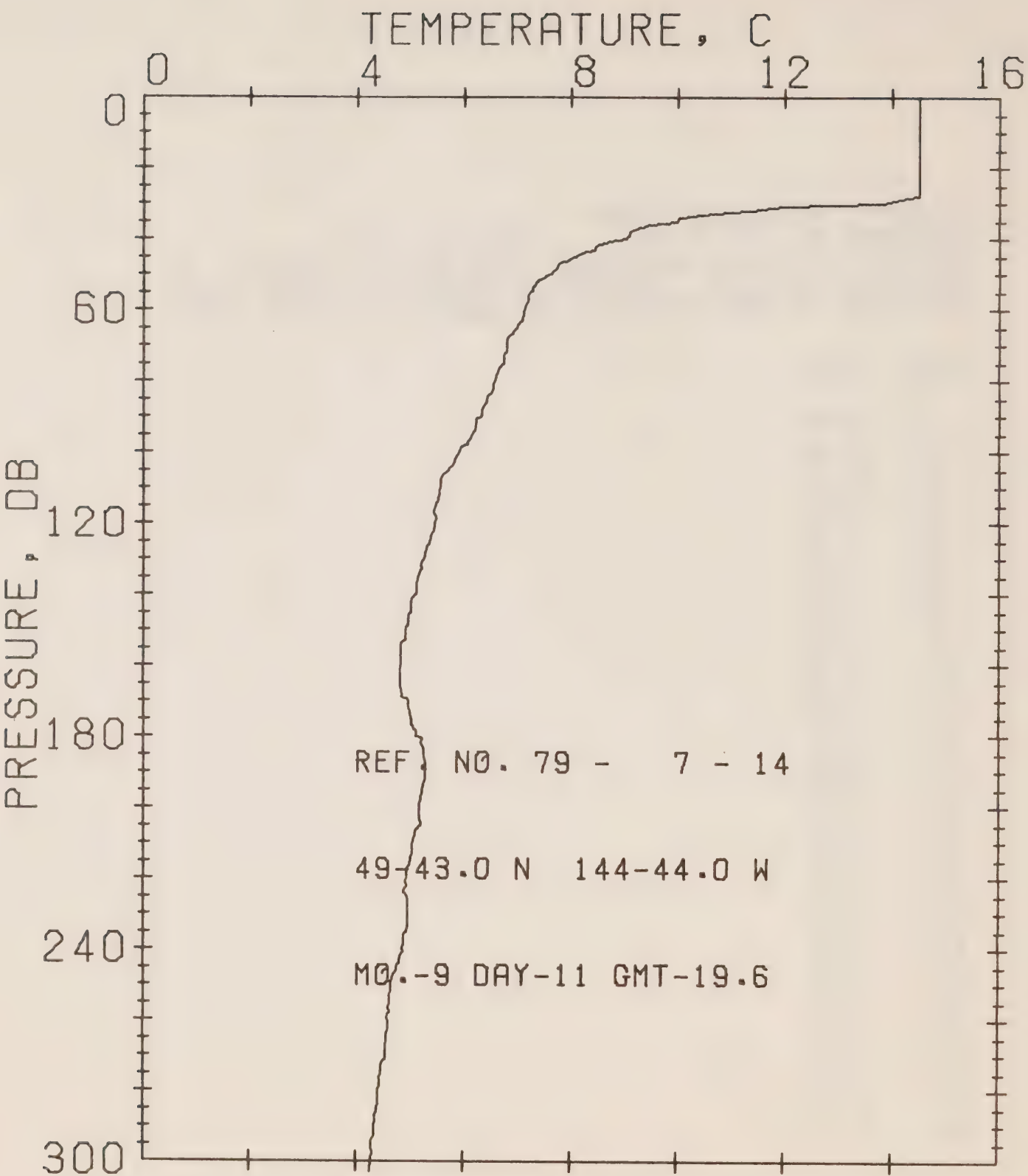
STATION E3

RESULTS OF STP CAST 183 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.49
10	14.46
20	14.45
30	14.03
40	9.20
50	7.76
60	7.10
70	6.74
80	6.55
90	6.23
100	5.78
110	5.47
120	5.15
130	4.98
140	4.83
150	4.94
160	5.14
170	5.11
180	5.10
190	5.05
200	4.98
210	4.88
220	4.80
230	4.69
240	4.62
250	4.51
260	4.48
270	4.41
280	4.32
290	4.31
300	4.30



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 14

DATE 11/ 9/79

POSITION 49-43.0N, 144-44.0W

GMT 19.6

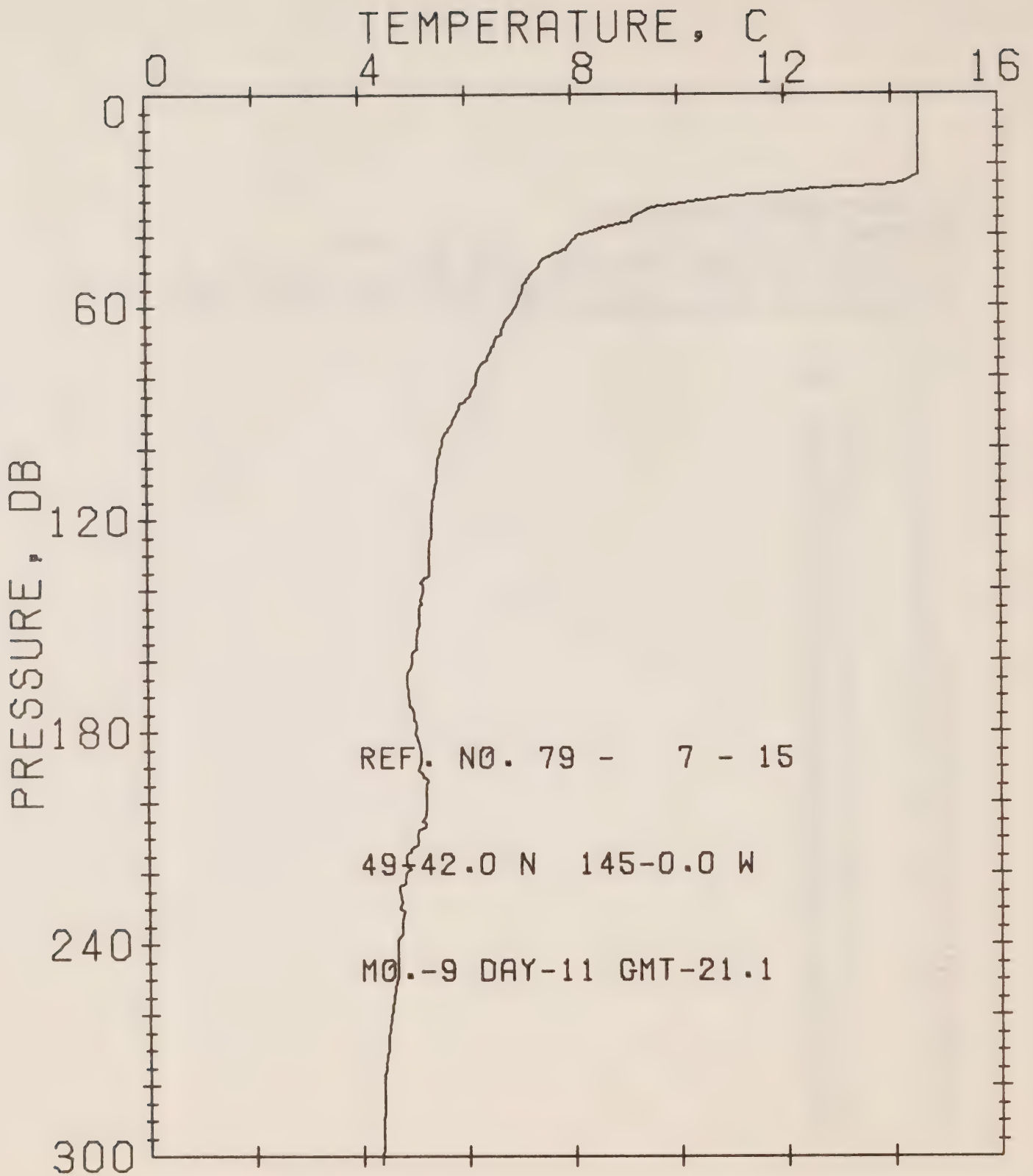
STATION E4

RESULTS OF STP CAST 188 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.52
10	14.52
20	14.52
30	13.85
40	9.03
50	7.62
60	7.13
70	6.79
80	6.60
90	6.33
100	5.92
110	5.58
120	5.47
130	5.26
140	5.12
150	4.92
160	4.82
170	4.95
180	5.12
190	5.29
200	5.18
210	5.05
220	4.93
230	4.96
240	4.86
250	4.63
260	4.57
270	4.53
280	4.39
290	4.32
300	4.28



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 15

DATE 11/ 9/79

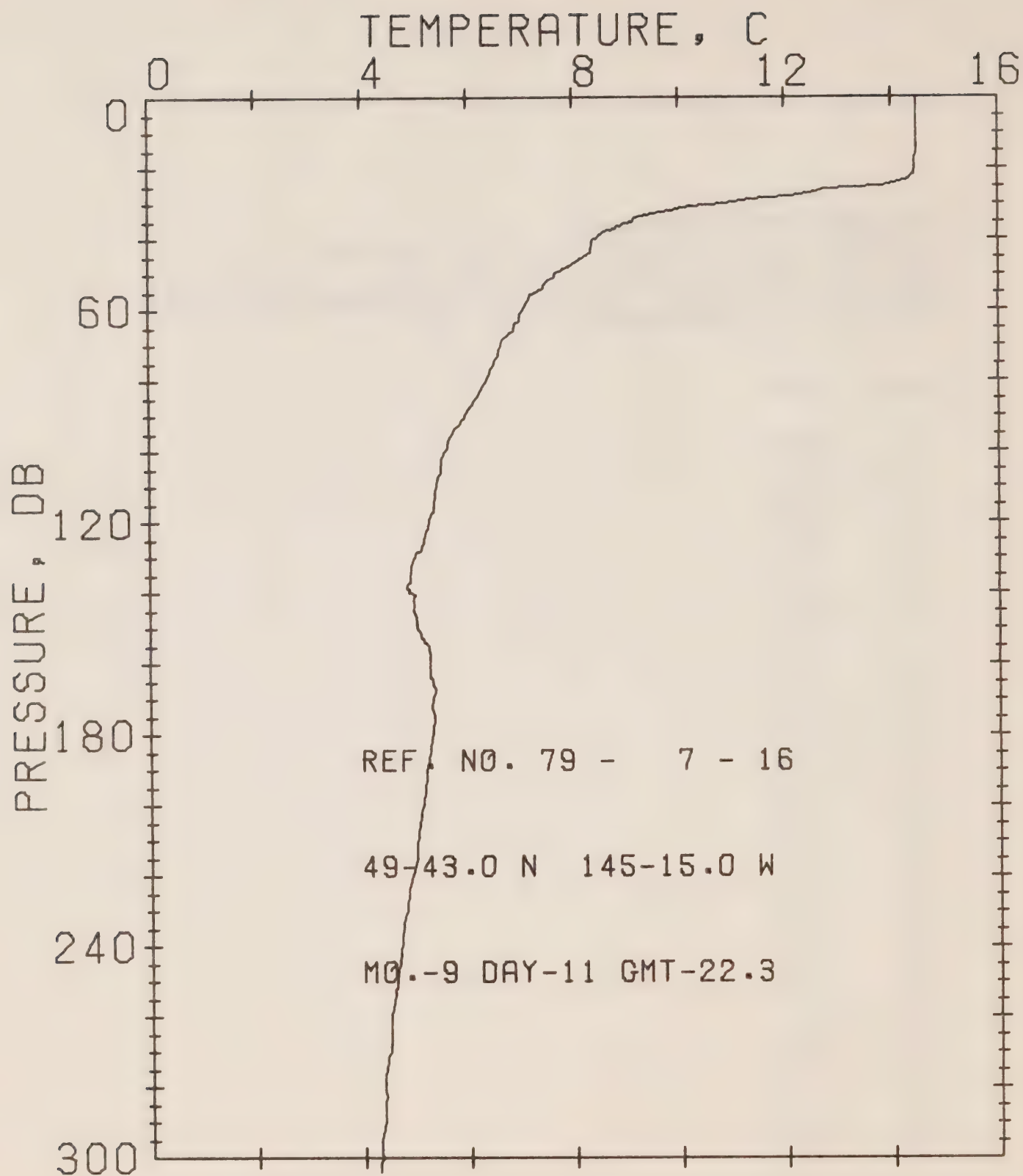
POSITION 49-42.0N, 145- .0W GMT 21.1 STATION C1

RESULTS OF STP CAST 173 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.53
10	14.53
20	14.51
30	10.46
40	8.11
50	7.32
60	6.94
70	6.57
80	6.22
90	5.84
100	5.54
110	5.43
120	5.33
130	5.27
140	5.18
150	5.10
160	4.95
170	4.87
180	5.01
190	5.10
200	5.23
210	5.04
220	4.84
230	4.73
240	4.67
250	4.65
260	4.54
270	4.48
280	4.41
290	4.38
300	4.34



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 16

DATE 11/ 9/79

POSITION 49-43.0N, 145-15.0W

GMT 22.3

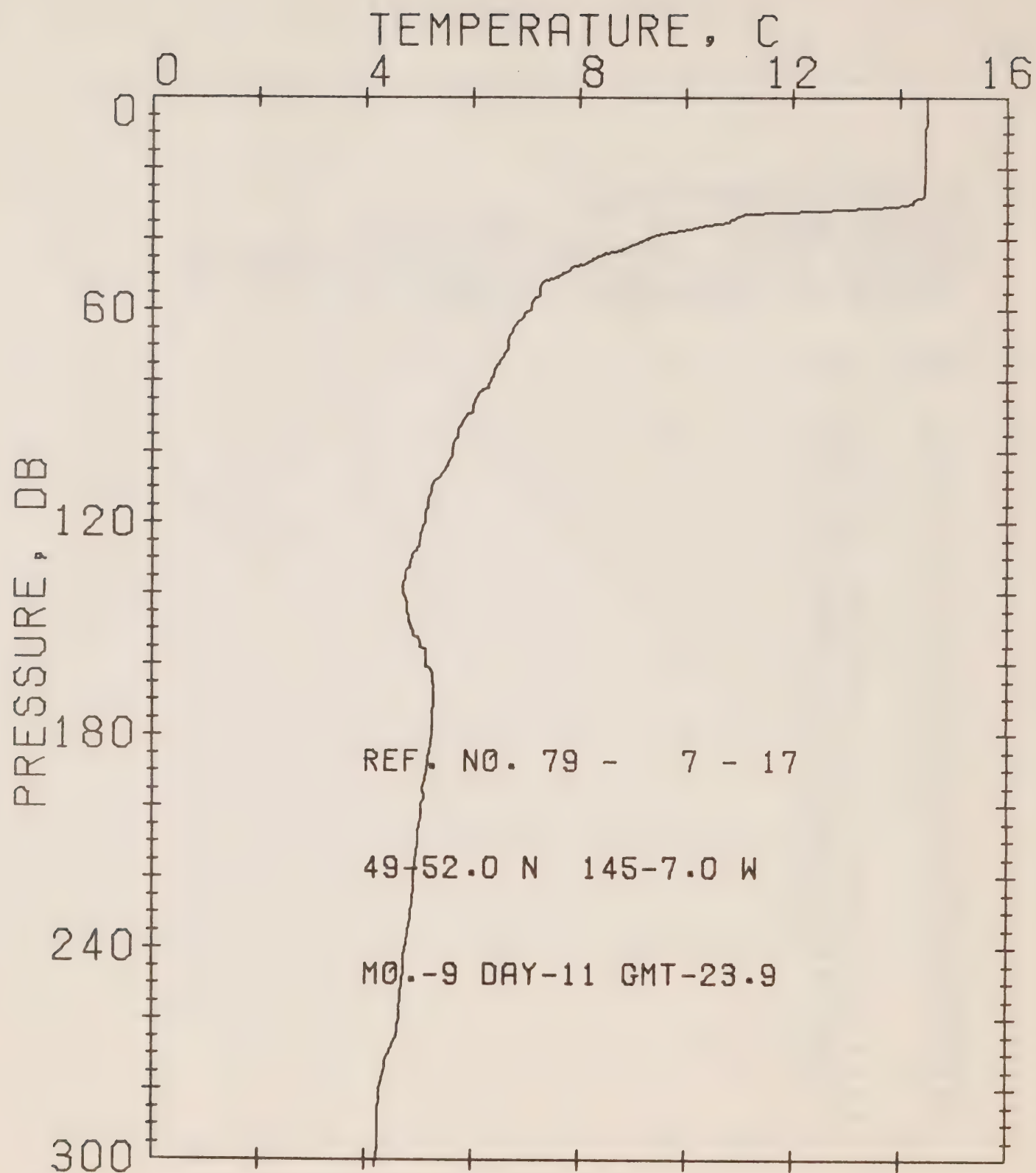
STATION W4

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.48
10	14.48
20	14.46
30	10.90
40	8.46
50	7.66
60	7.06
70	6.66
80	6.36
90	5.98
100	5.59
110	5.41
120	5.29
130	5.00
140	4.92
150	5.05
160	5.28
170	5.33
180	5.33
190	5.22
200	5.15
210	5.02
220	4.93
230	4.82
240	4.71
250	4.63
260	4.52
270	4.49
280	4.37
290	4.37
300	4.31



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 17

DATE 11/ 9/79

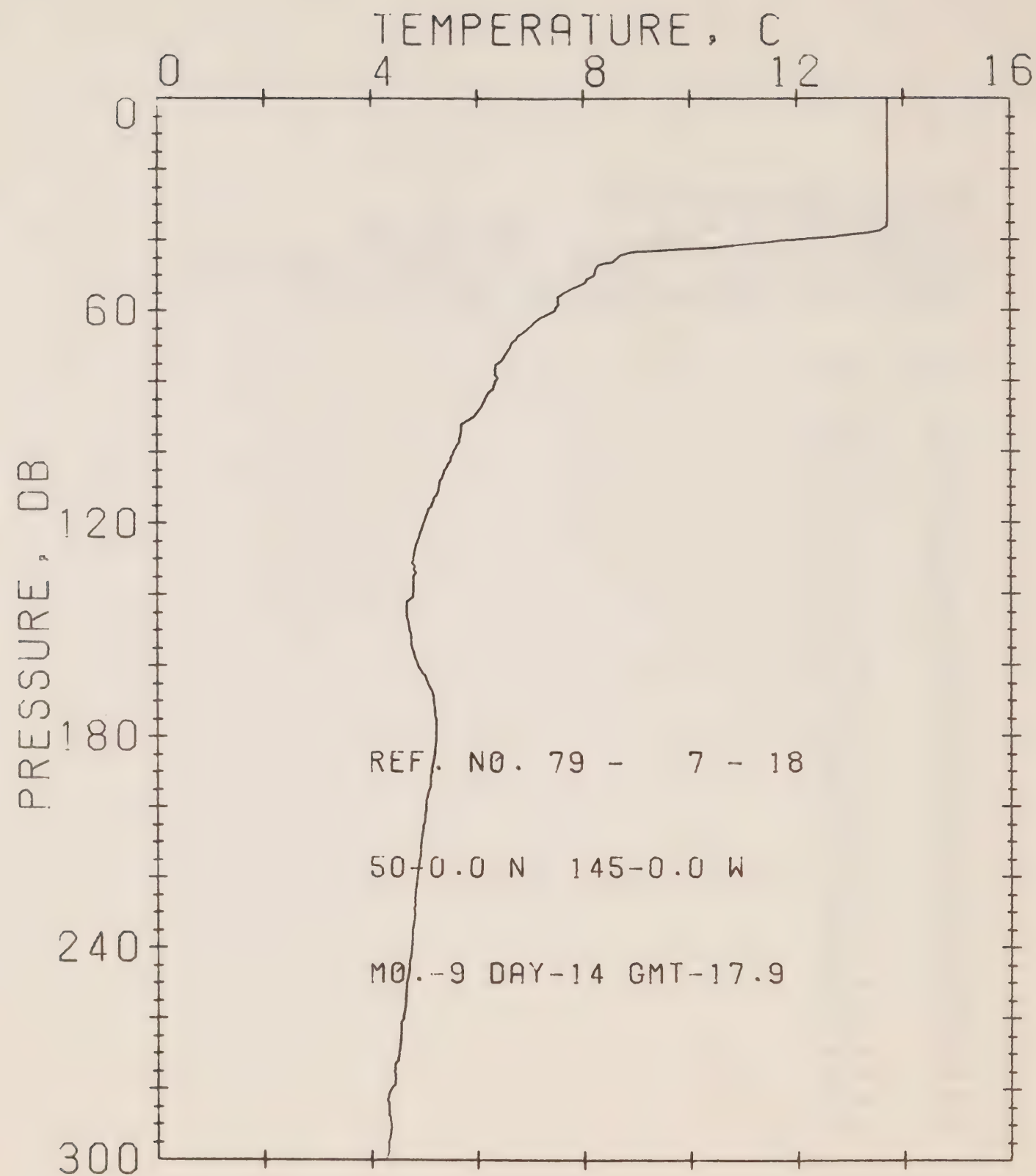
POSITION 49-52.0N, 145- 7.0W GMT 23.9 STATION W3

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.51
10	14.49
20	14.48
30	14.25
40	9.28
50	7.69
60	7.08
70	6.67
80	6.35
90	5.89
100	5.63
110	5.24
120	5.11
130	4.87
140	4.69
150	4.86
160	5.13
170	5.28
180	5.24
190	5.14
200	5.04
210	4.98
220	4.92
230	4.86
240	4.77
250	4.69
260	4.63
270	4.46
280	4.28
290	4.23
300	4.18



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 18

DATE 14/ 9/79

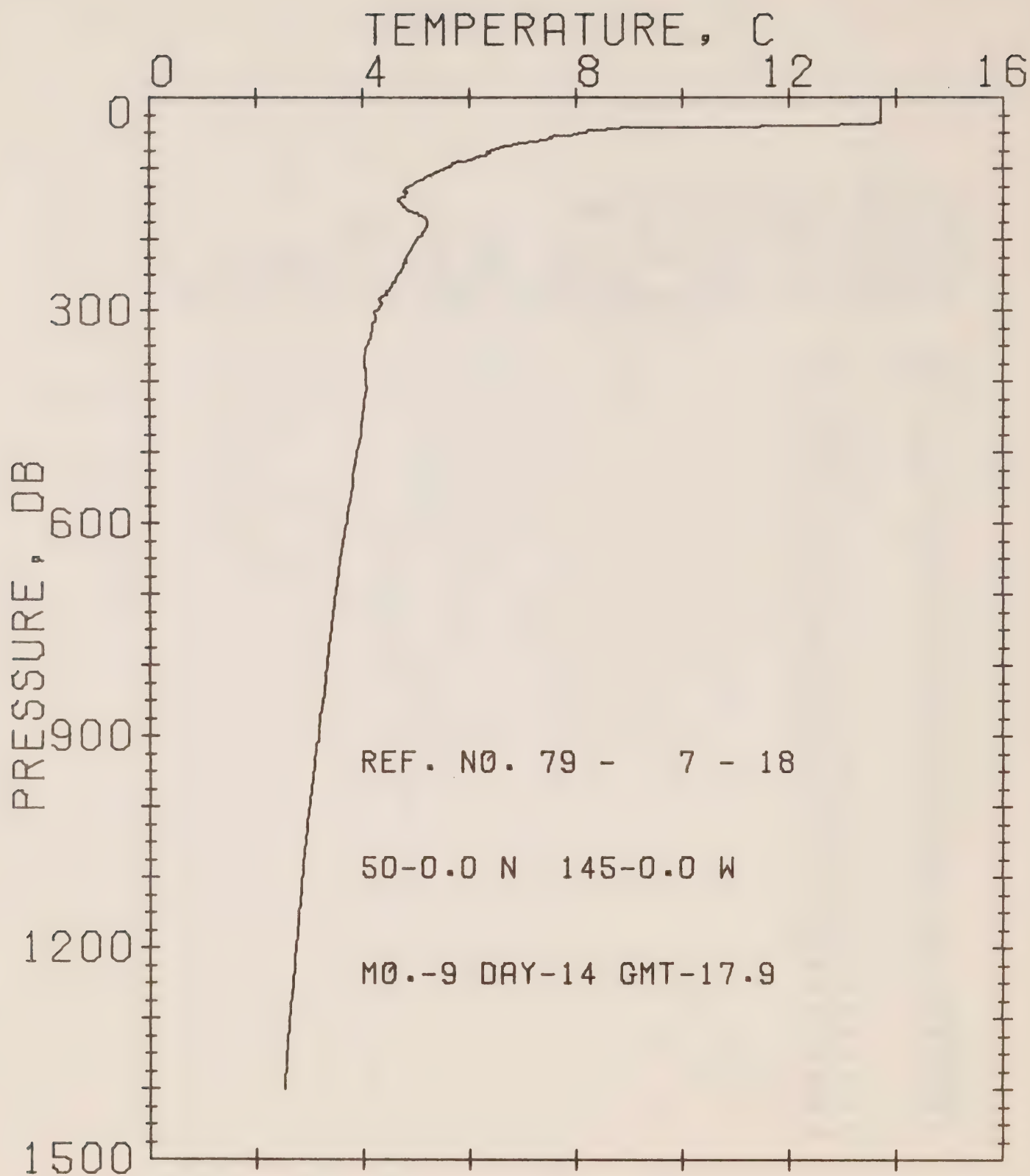
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 146 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.71
10	13.71
20	13.71
30	13.70
40	11.73
50	8.22
60	7.46
70	6.64
80	6.36
90	5.96
100	5.56
110	5.29
120	4.99
130	4.80
140	4.80
150	4.71
160	4.89
170	5.18
180	5.22
190	5.14
200	5.04
210	4.94
220	4.88
230	4.81
240	4.76
250	4.66
260	4.60
270	4.53
280	4.38
290	4.36
300	4.26



OFFSHORE OCEANOGRAPHY GROUP

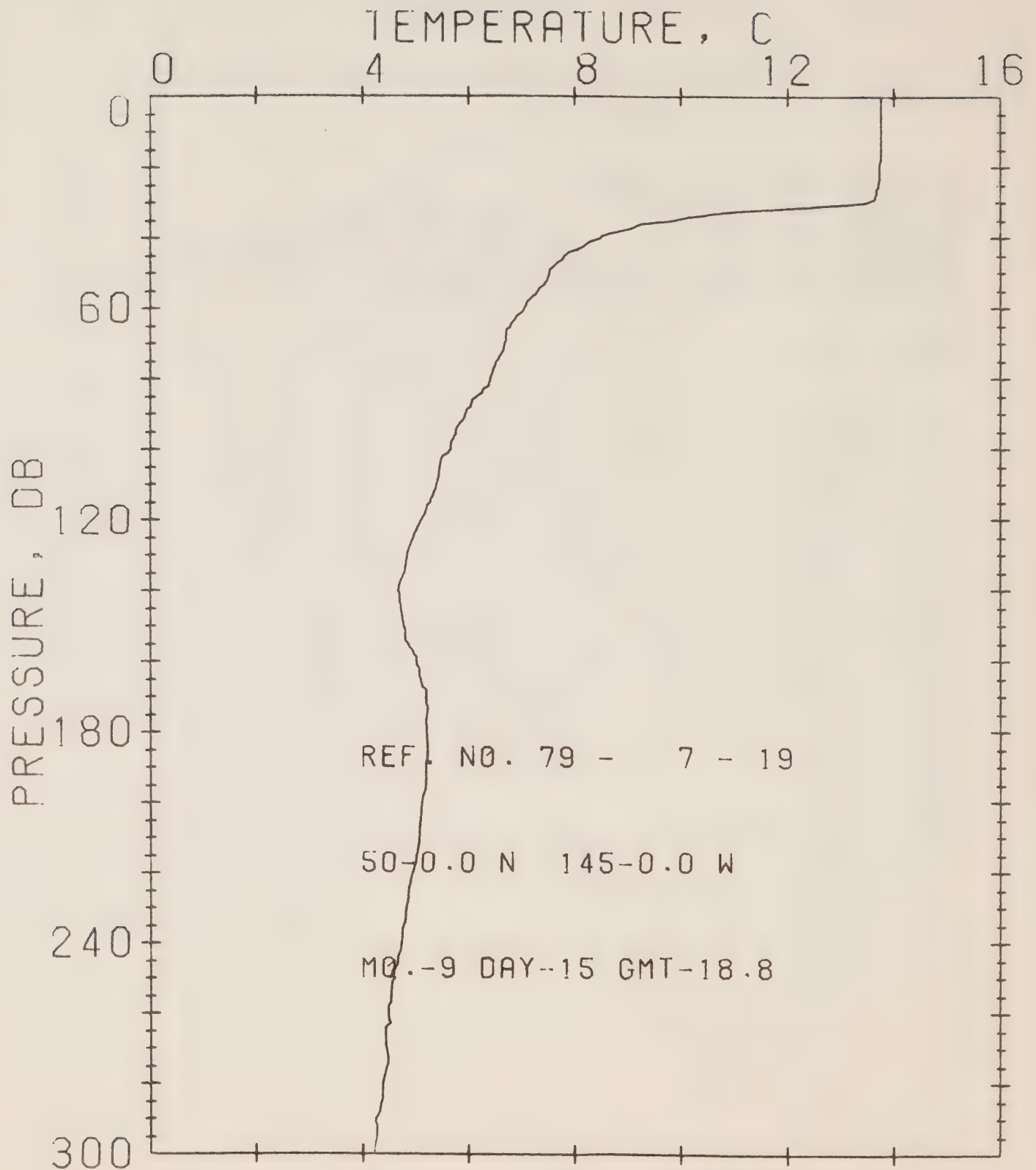
REFERENCE NO. 79- 7- 18

DATE 14/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 230 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	13.71
10	13.71
20	13.71
30	13.70
50	8.22
75	6.36
100	5.56
125	4.87
150	4.71
175	5.22
200	5.04
225	4.84
250	4.66
300	4.26
400	4.06
500	3.90
600	3.70
800	3.33
1000	3.01
1200	2.76



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 19

DATE 15/ 9/79

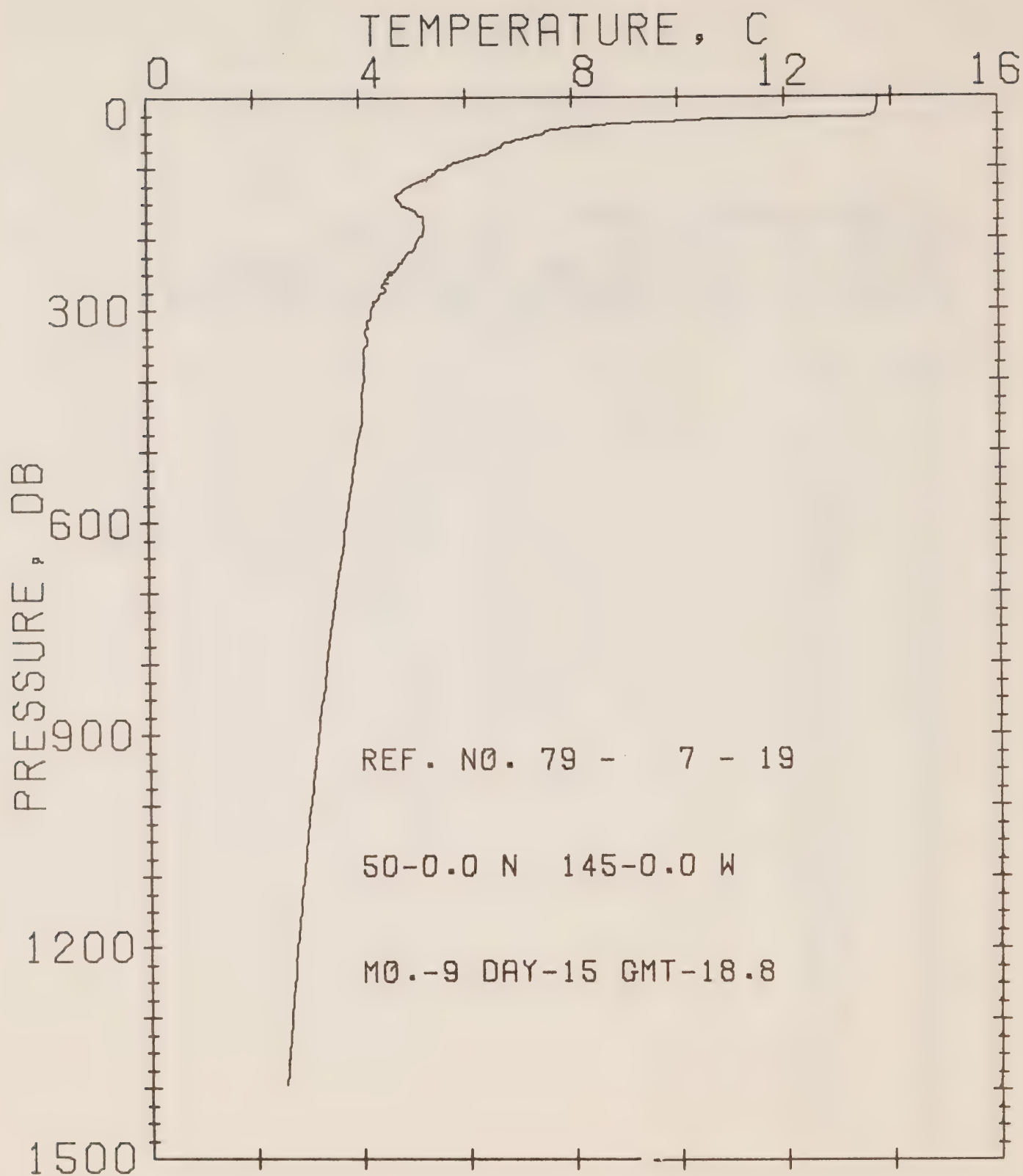
POSITION 50- .0N, 145- .0W GMT 18.8 STATION P

RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.76
10	13.76
20	13.74
30	13.47
40	8.52
50	7.53
60	7.06
70	6.70
80	6.43
90	5.97
100	5.67
110	5.41
120	5.13
130	4.85
140	4.67
150	4.77
160	5.01
170	5.20
180	5.21
190	5.20
200	5.12
210	5.07
220	4.95
230	4.84
240	4.74
250	4.60
260	4.49
270	4.45
280	4.37
290	4.23
300	4.22



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 19

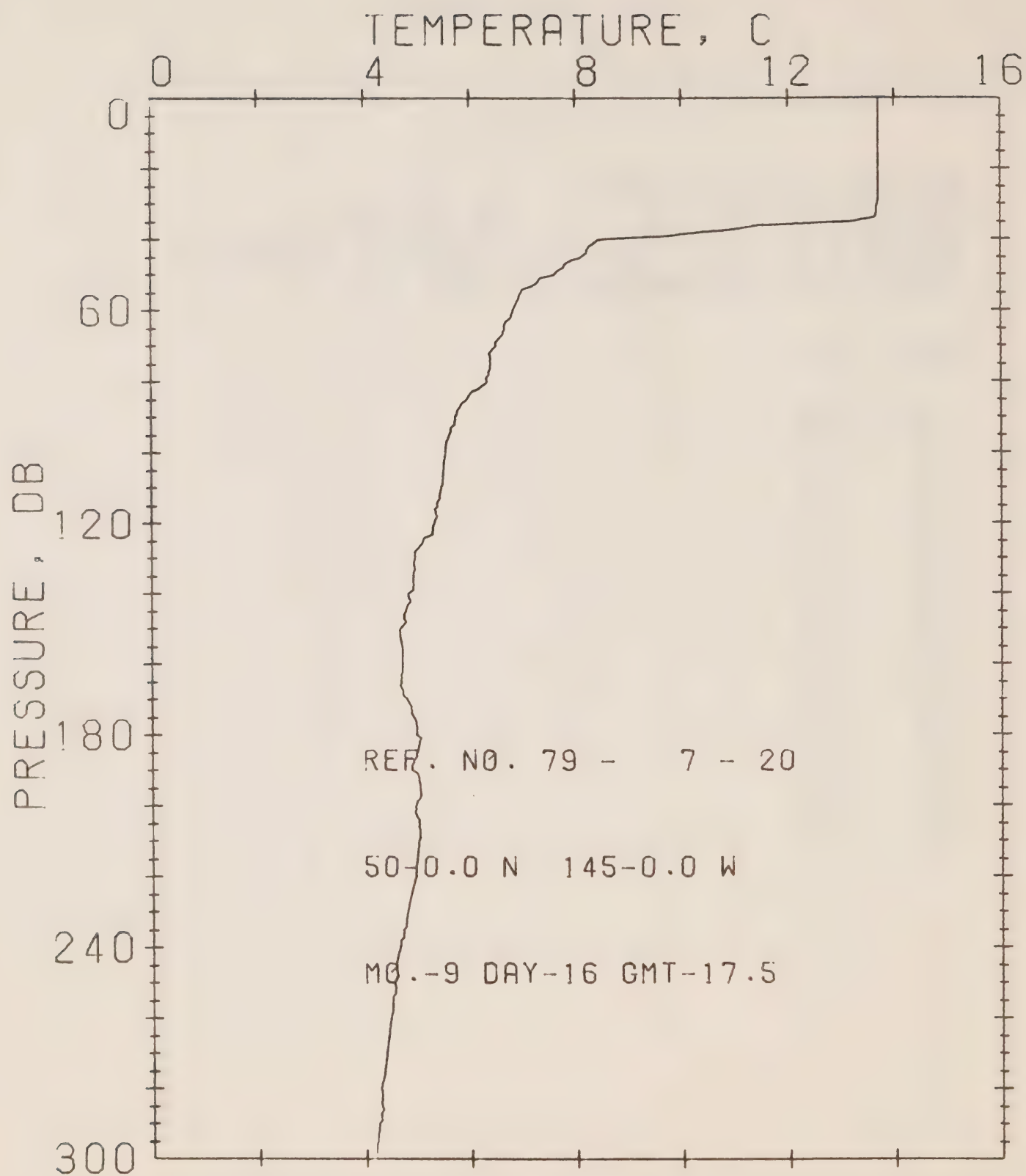
DATE 15/ 9/79

POSITION 50- .0N, 145- .0W GMT 18.8 STATION P

RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	13.76
10	13.76
20	13.74
30	13.47
50	7.53
75	6.53
100	5.67
125	4.95
150	4.77
175	5.22
200	5.12
225	4.87
250	4.60
300	4.22
400	4.07
500	3.92
600	3.71
800	3.35
1000	3.03
1200	2.76



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 20

DATE 16/ 9/79

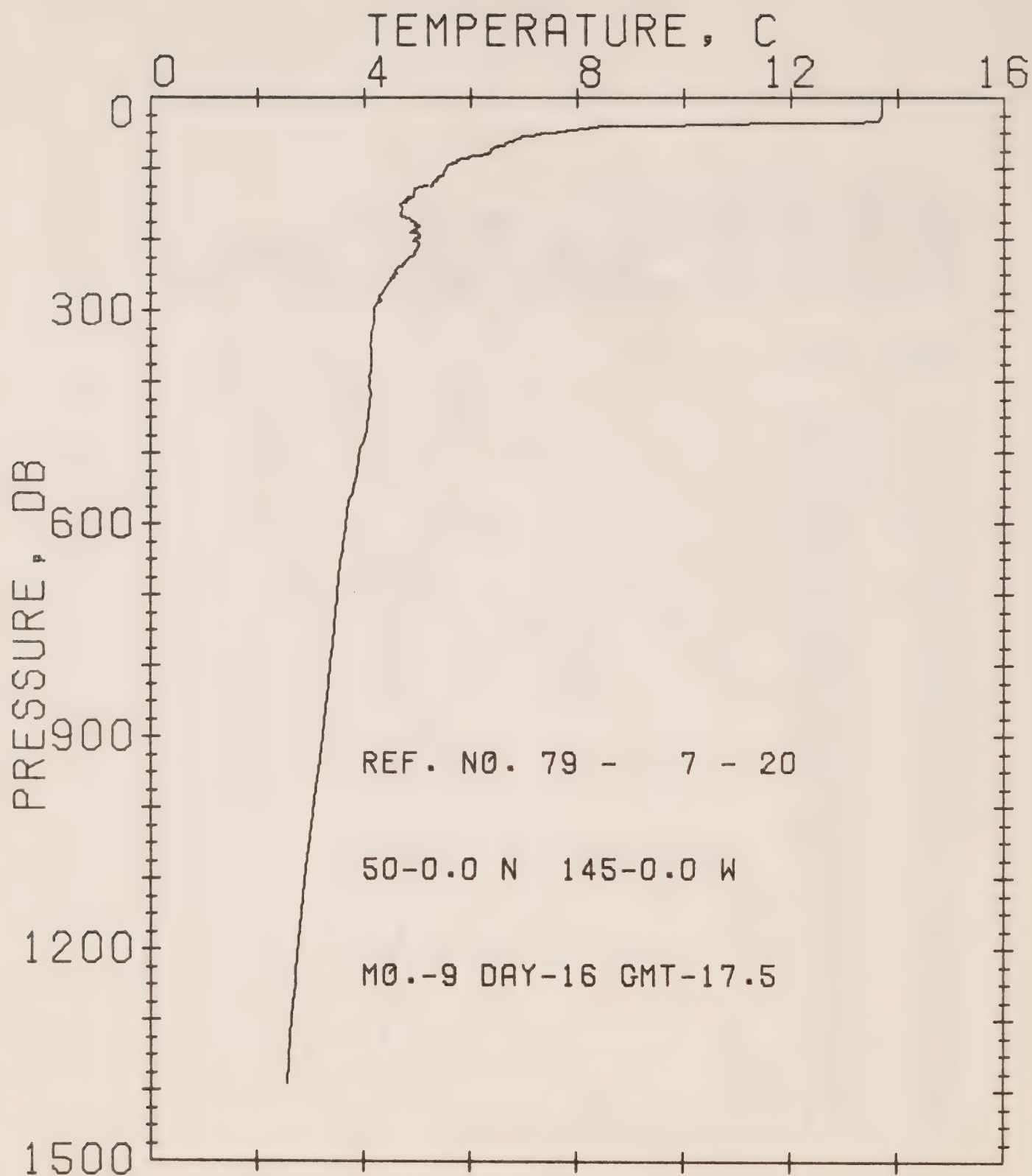
POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 190 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.70
10	13.70
20	13.70
30	13.70
40	8.45
50	7.64
60	6.82
70	6.51
80	6.34
90	5.74
100	5.54
110	5.47
120	5.34
130	4.96
140	4.84
150	4.68
160	4.72
170	4.81
180	4.97
190	4.89
200	4.97
210	5.00
220	4.96
230	4.81
240	4.66
250	4.54
260	4.48
270	4.39
280	4.28
290	4.24
300	4.19



OFFSHORE OCEANOGRAPHY GROUP

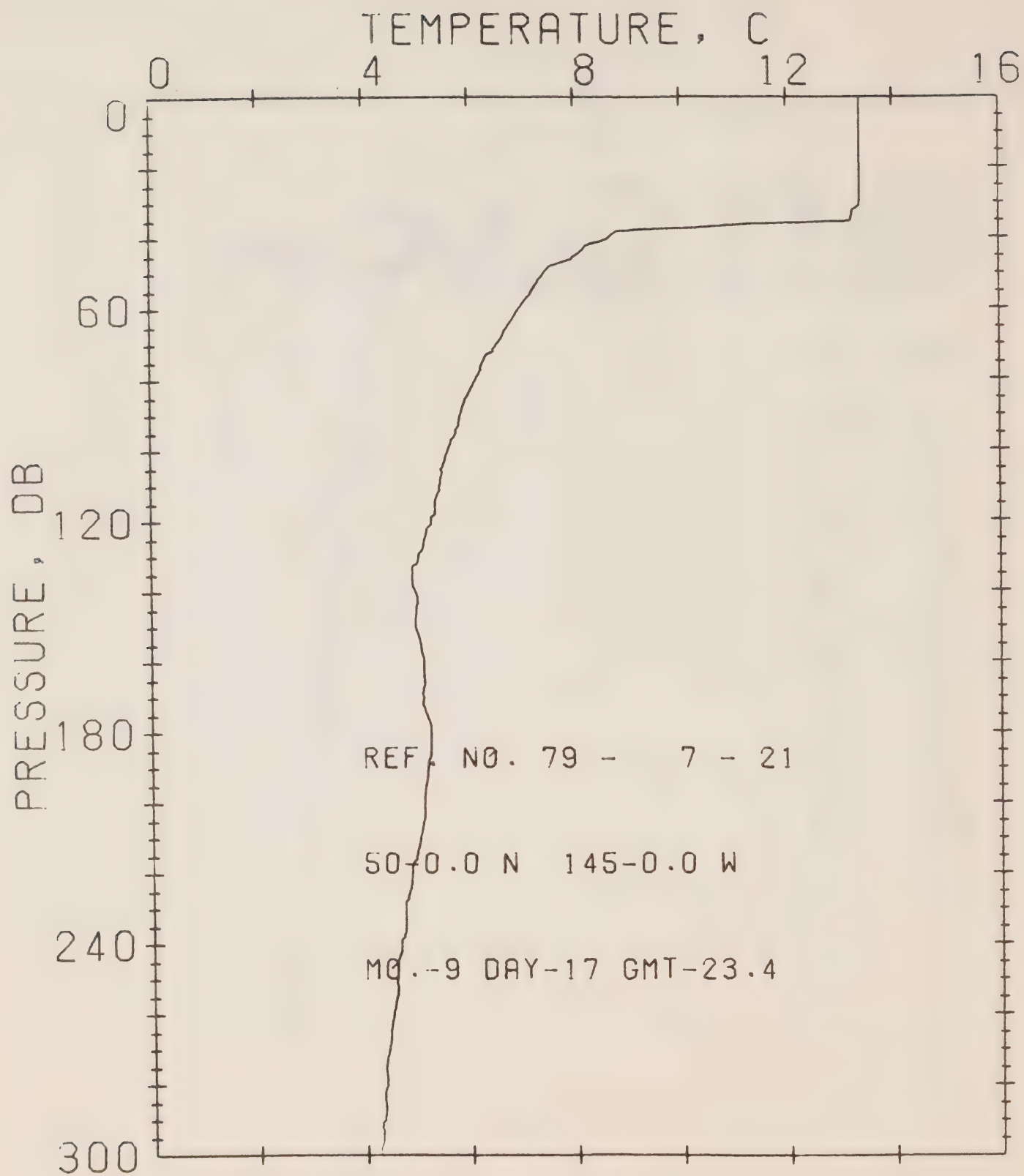
REFERENCE NO. 79- 7- 20

DATE 16/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 254 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	13.70
10	13.70
20	13.70
30	13.70
50	7.64
75	6.40
100	5.54
125	5.13
150	4.68
175	4.93
200	4.97
225	4.87
250	4.54
300	4.19
400	4.11
500	3.92
600	3.66
800	3.37
1000	3.05
1200	2.76



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 21

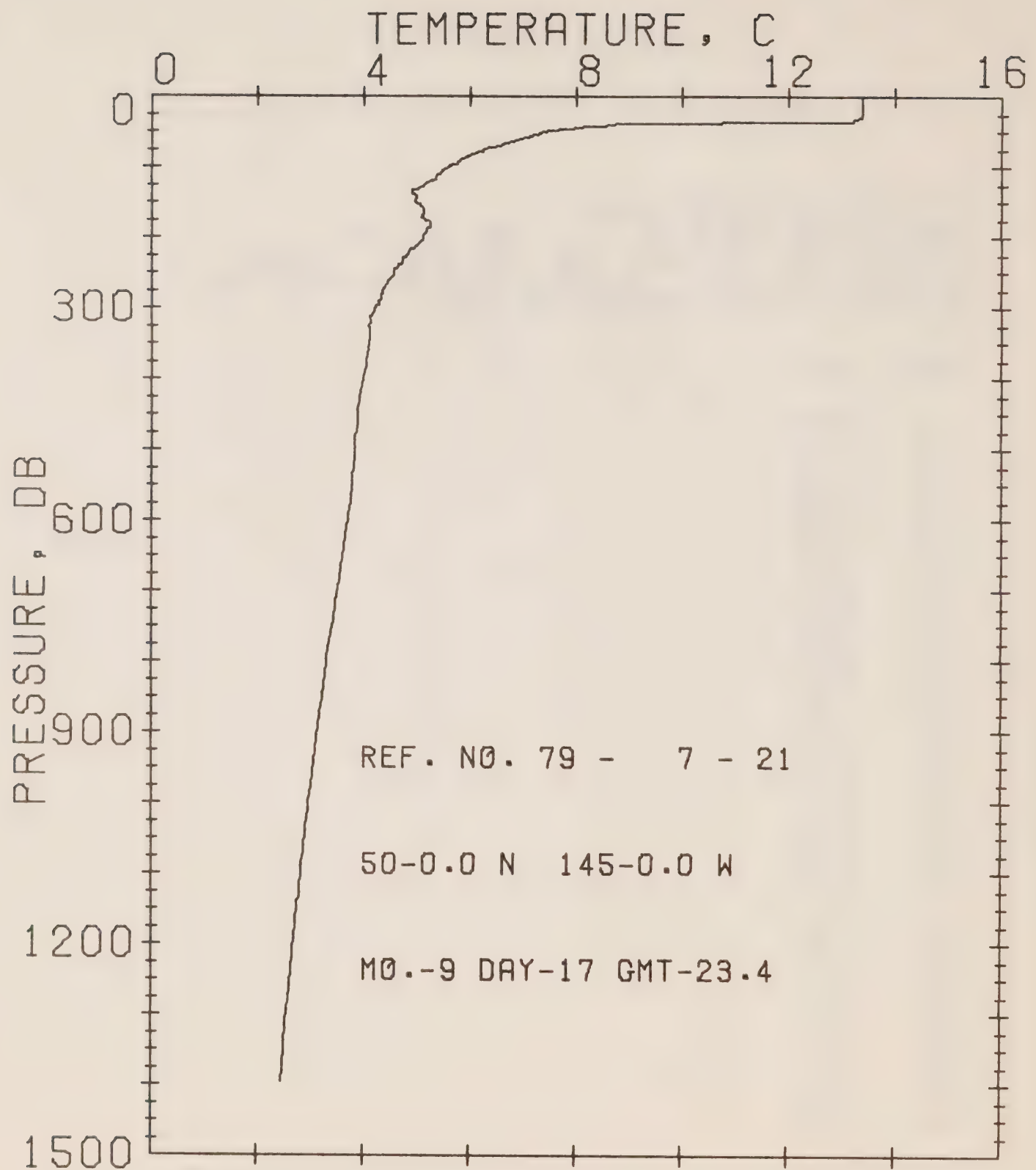
DATE 17/ 9/79

POSITION 50- .0N, 145- .0W GMT 23.4 STATION P

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.38
10	13.38
20	13.38
30	13.38
40	8.66
50	7.43
60	6.96
70	6.54
80	6.13
90	5.83
100	5.60
110	5.45
120	5.27
130	5.04
140	4.97
150	4.97
160	5.11
170	5.12
180	5.24
190	5.20
200	5.12
210	5.04
220	4.87
230	4.76
240	4.68
250	4.57
260	4.51
270	4.41
280	4.37
290	4.33
300	4.23



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 21

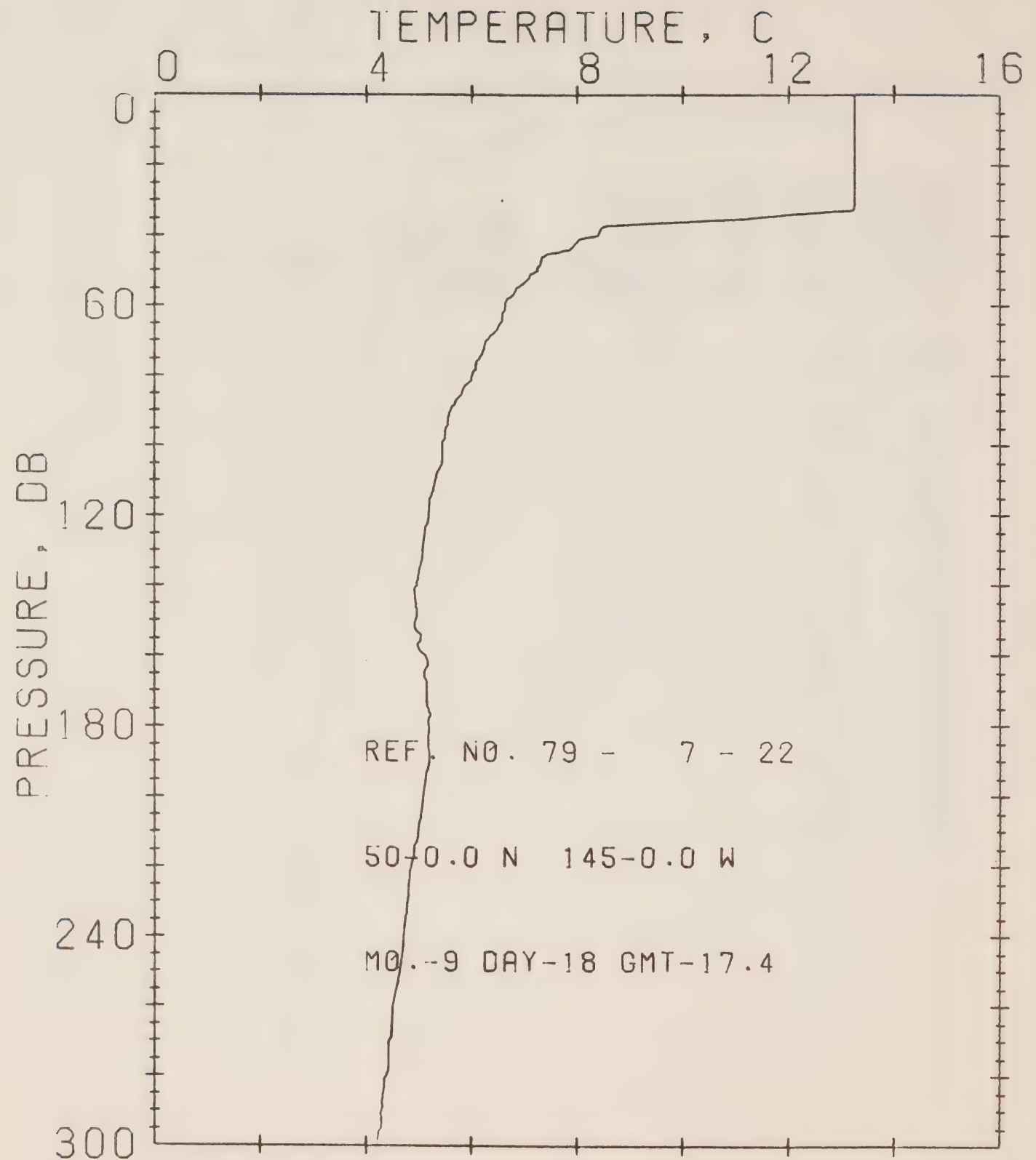
DATE 17/ 9/79

POSITION 50- .0N, 145- .0W GMT 23.4 STATION P

RESULTS OF STP CAST 242 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.38
10	13.38
20	13.38
30	13.38
50	7.43
75	6.27
100	5.60
125	5.15
150	4.97
175	5.16
200	5.12
225	4.83
250	4.57
300	4.23
400	4.00
500	3.84
600	3.70
800	3.31
1000	2.97
1200	2.68



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 22

DATE 18/ 9/79

POSITION 50- .0N, 145- .0W

GMT 17.4

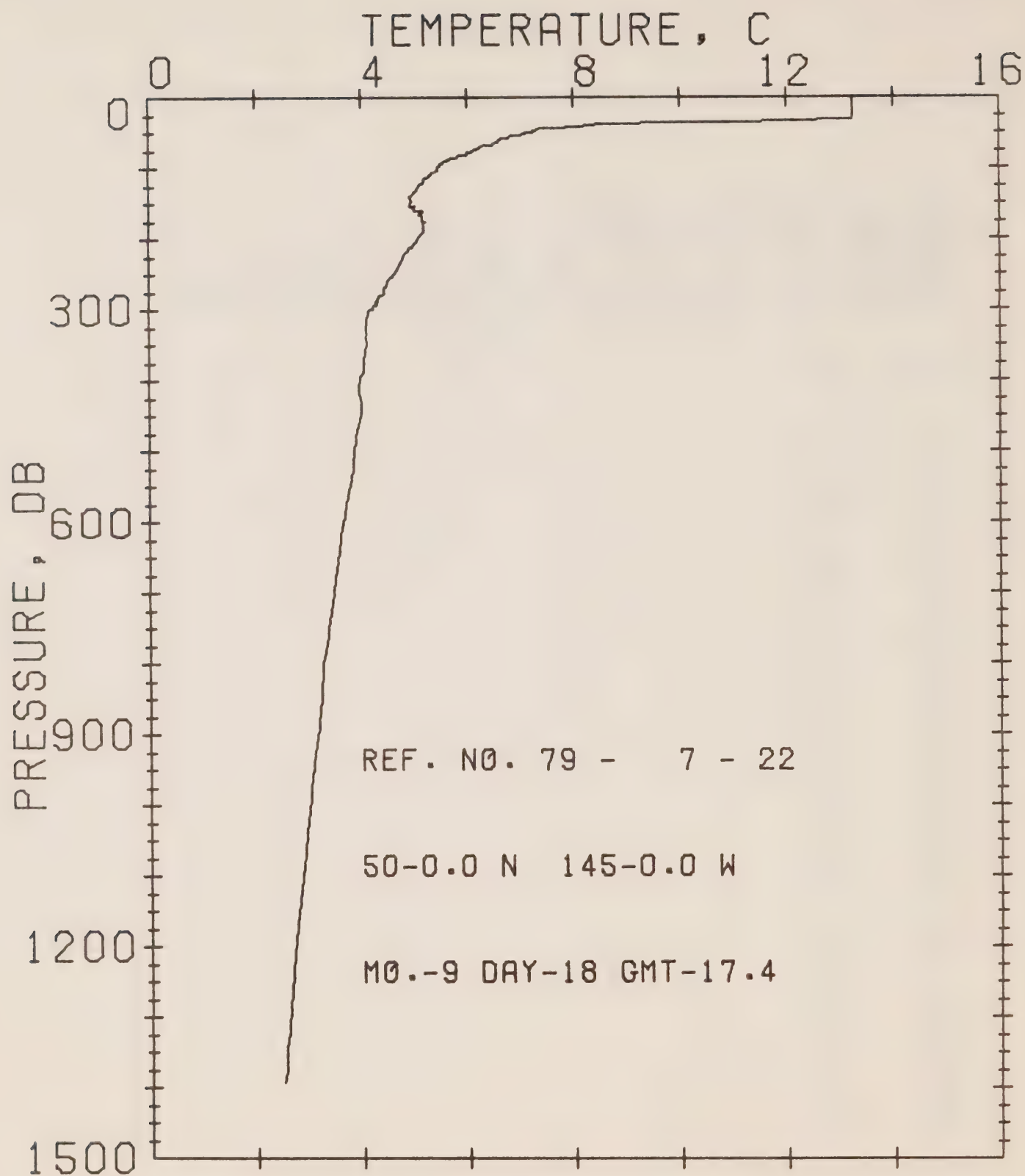
STATION P

RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.26
10	13.26
20	13.26
30	13.26
40	8.40
50	7.25
60	6.63
70	6.27
80	6.01
90	5.61
100	5.45
110	5.31
120	5.19
130	5.07
140	4.95
150	4.95
160	5.11
170	5.14
180	5.18
190	5.19
200	5.10
210	4.98
220	4.85
230	4.79
240	4.72
250	4.63
260	4.50
270	4.44
280	4.39
290	4.30
300	4.21



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 22

DATE 18/ 9/79

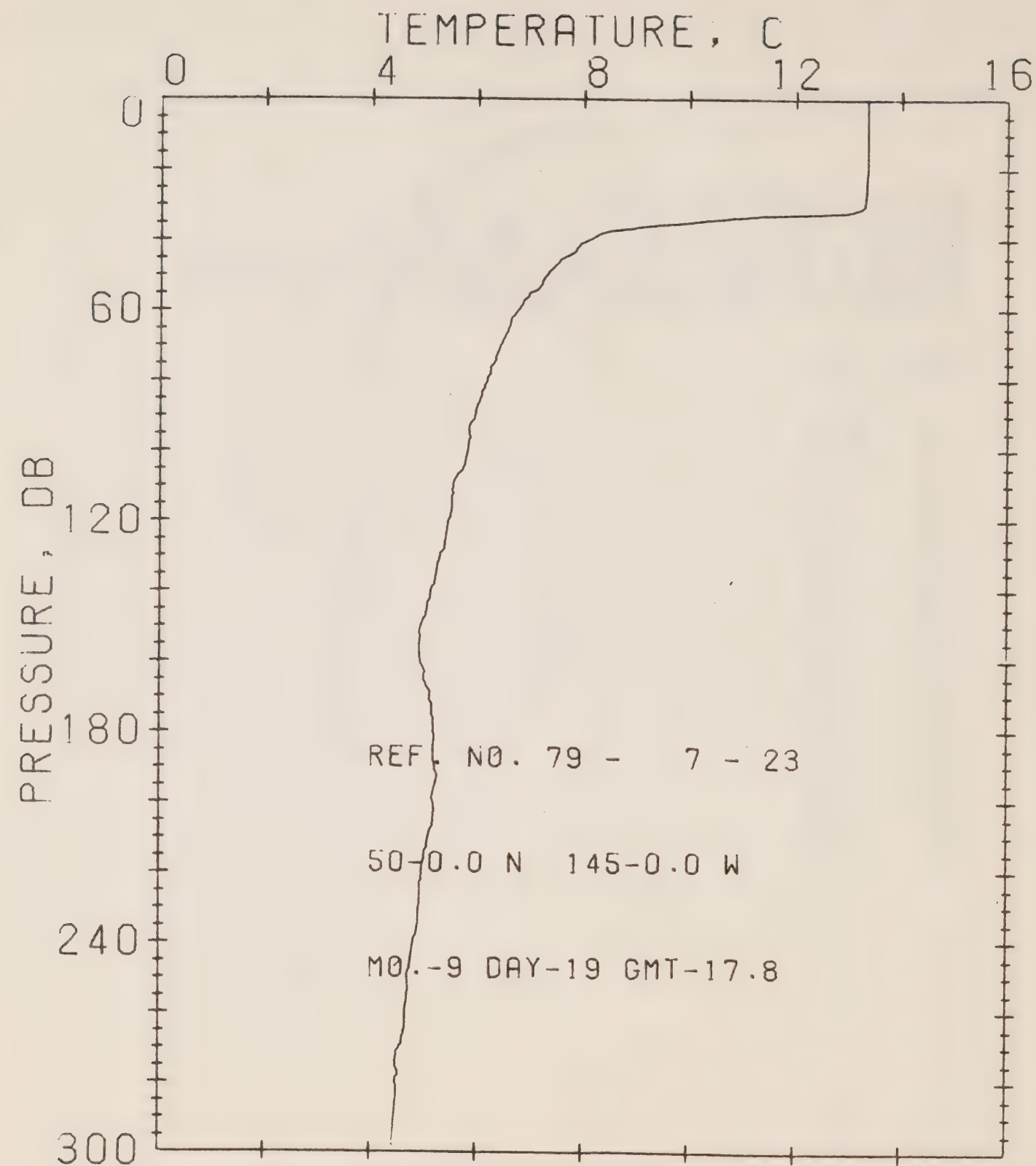
POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 230 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.26
10	13.26
20	13.26
30	13.26
50	7.25
75	6.13
100	5.45
125	5.10
150	4.95
175	5.16
200	5.10
225	4.81
250	4.63
300	4.21
400	3.97
500	3.88
600	3.66
800	3.27
1000	2.99
1200	2.71



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 23

DATE 19/ 9/79

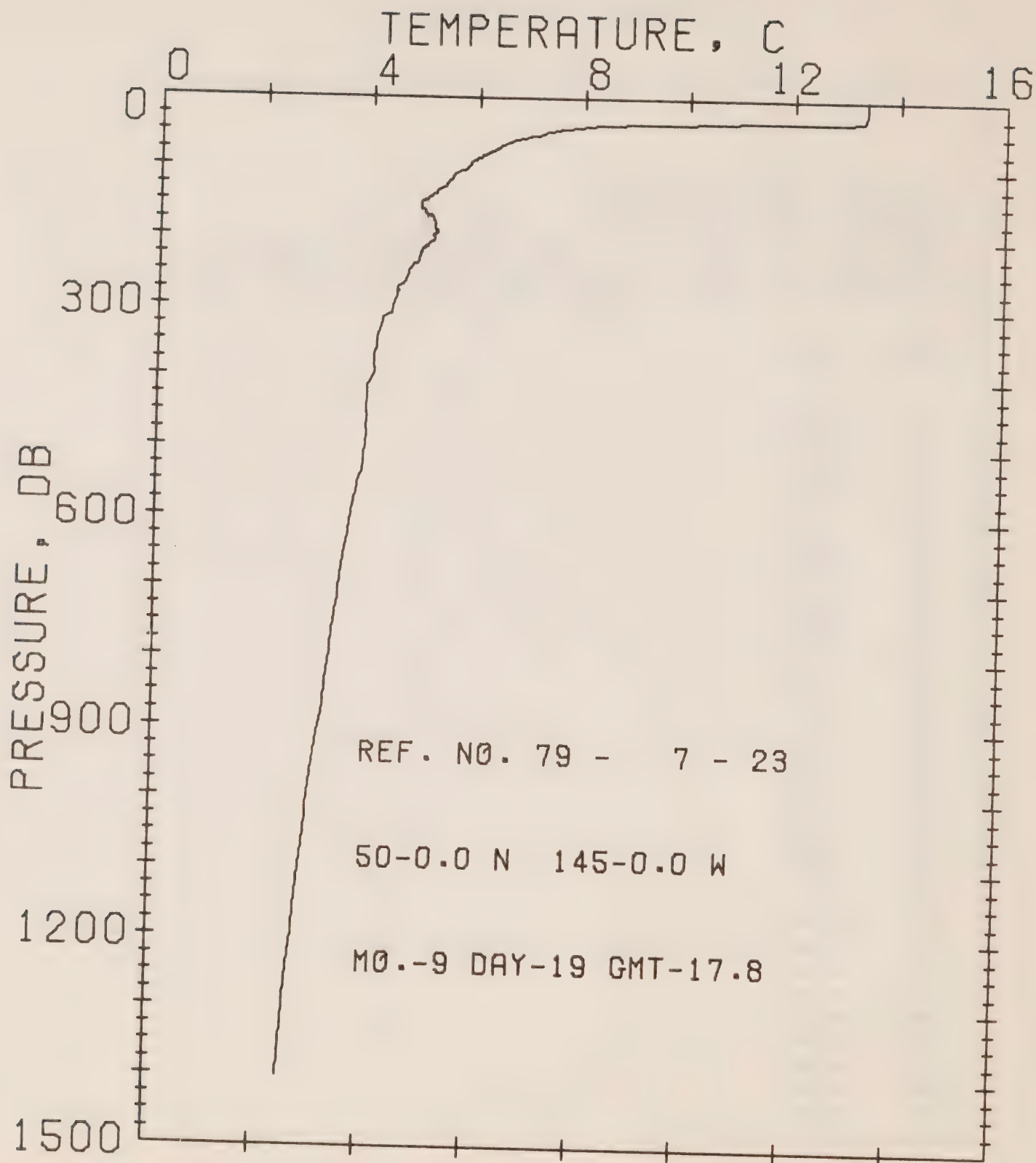
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.37
10	13.37
20	13.36
30	13.30
40	8.08
50	7.31
60	6.76
70	6.44
80	6.18
90	5.97
100	5.82
110	5.54
120	5.45
130	5.30
140	5.13
150	4.93
160	4.93
170	5.11
180	5.17
190	5.20
200	5.17
210	5.10
220	4.96
230	4.92
240	4.81
250	4.70
260	4.67
270	4.56
280	4.48
290	4.48
300	4.44



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 23

DATE 19/ 9/79

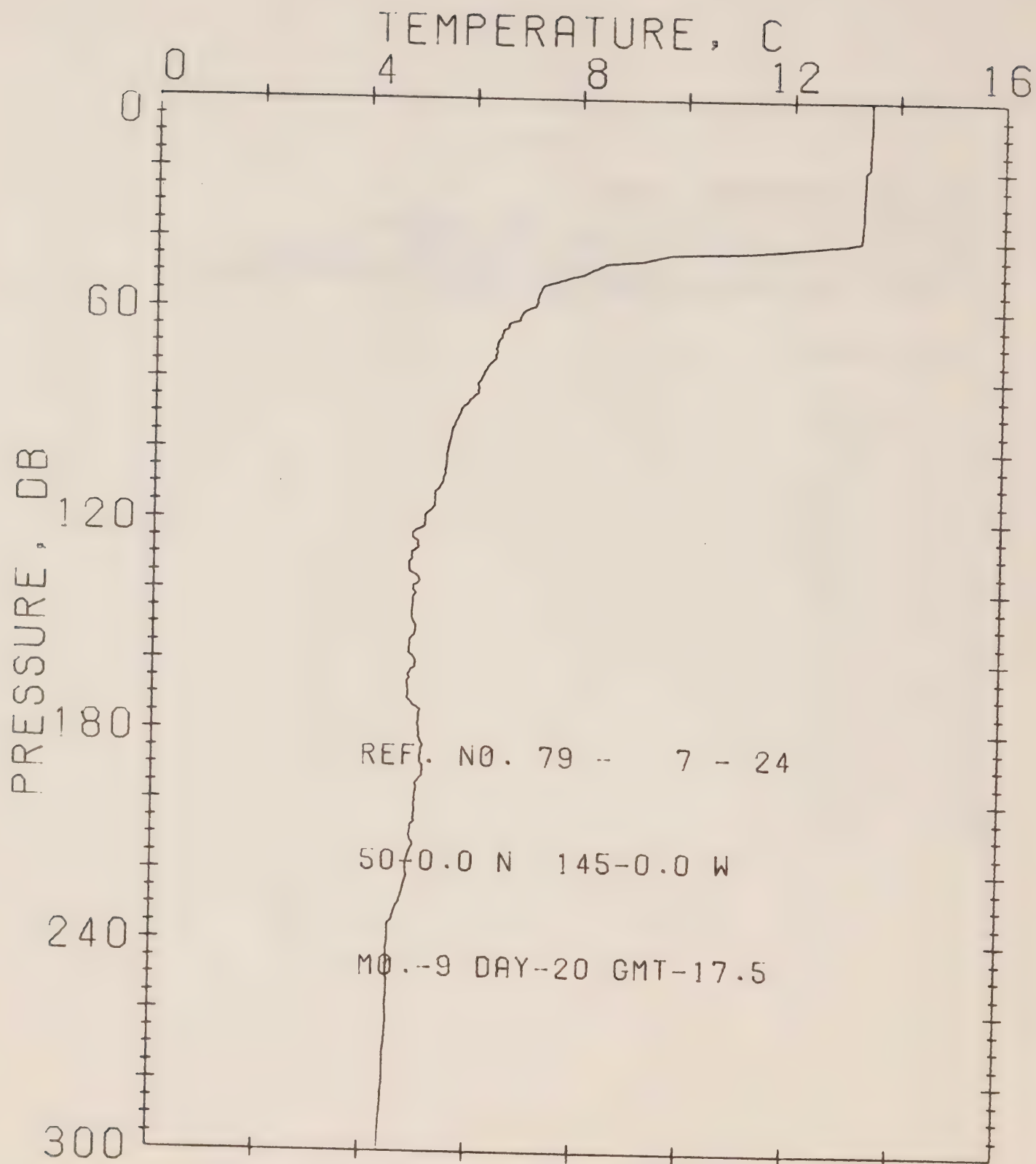
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
-------	------

0	13.37
10	13.37
20	13.36
30	13.30
50	7.31
75	6.30
100	5.82
125	5.41
150	4.93
175	5.15
200	5.17
225	4.94
250	4.70
300	4.44
400	4.06
500	3.94
600	3.70
800	3.34
1000	2.99
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 24

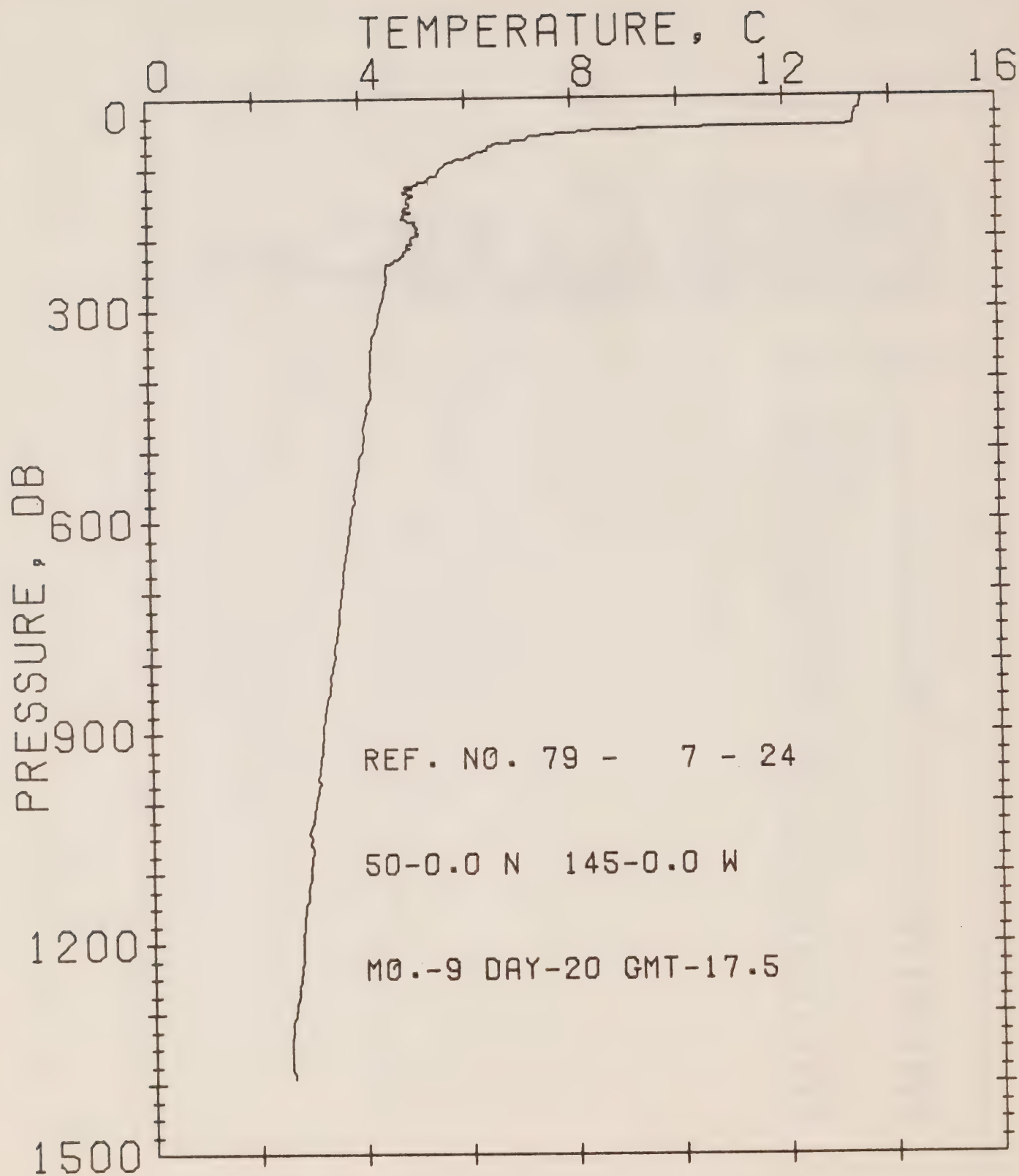
DATE 20/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 183 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.46
10	13.45
20	13.37
30	13.34
40	13.30
50	8.09
60	7.01
70	6.45
80	6.15
90	5.77
100	5.54
110	5.43
120	5.11
130	4.88
140	4.90
150	4.96
160	4.97
170	4.82
180	5.03
190	5.11
200	4.99
210	4.89
220	4.83
230	4.68
240	4.50
250	4.49
260	4.50
270	4.48
280	4.46
290	4.40
300	4.36



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 24

DATE 20/ 9/79

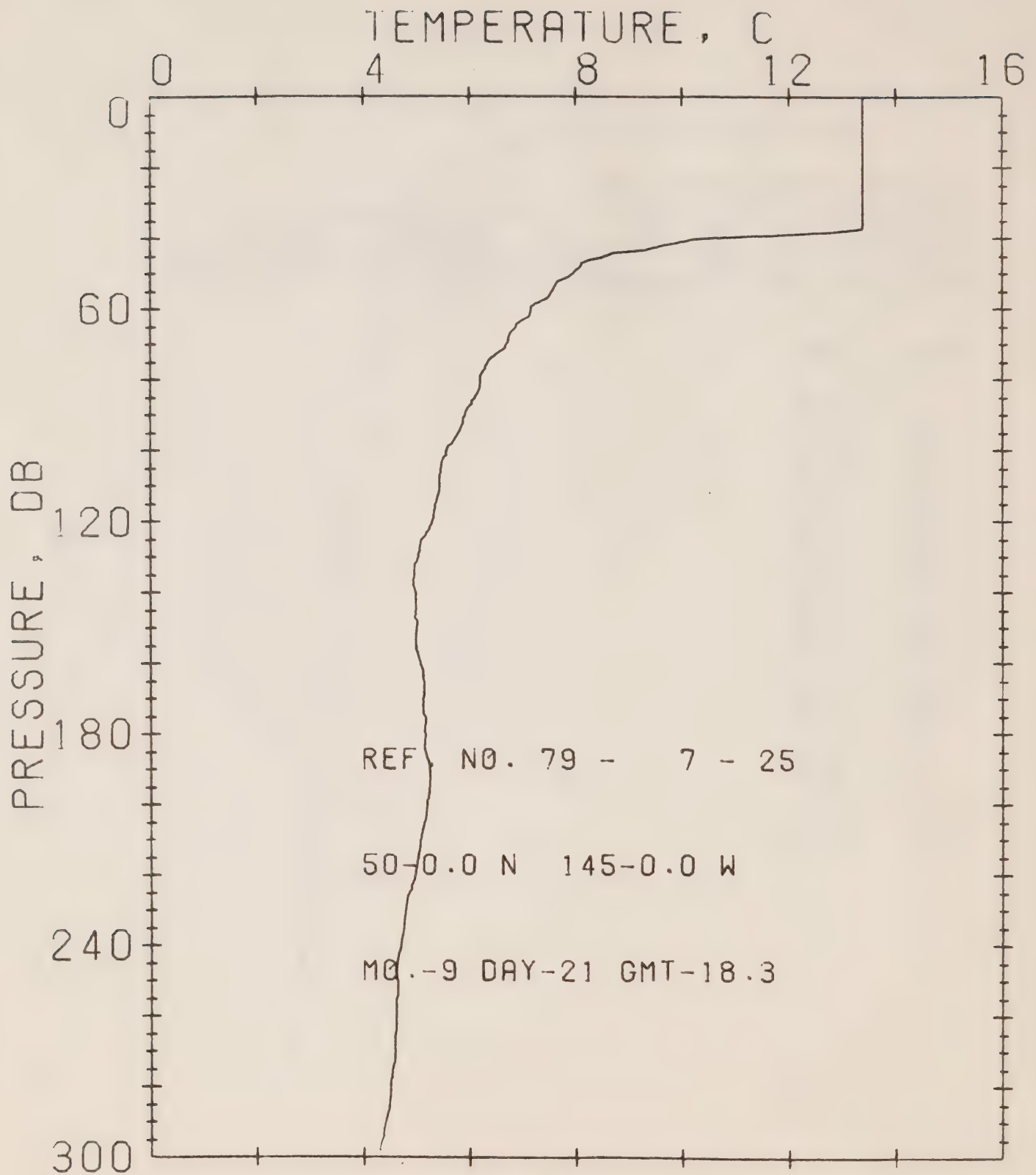
POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 278 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.46
10	13.45
20	13.37
30	13.34
50	8.09
75	6.35
100	5.54
125	4.89
150	4.96
175	5.04
200	4.99
225	4.78
250	4.49
300	4.36
400	4.18
500	4.01
600	3.78
800	3.44
1000	3.06
1200	2.81



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 25

DATE 21/ 9/79

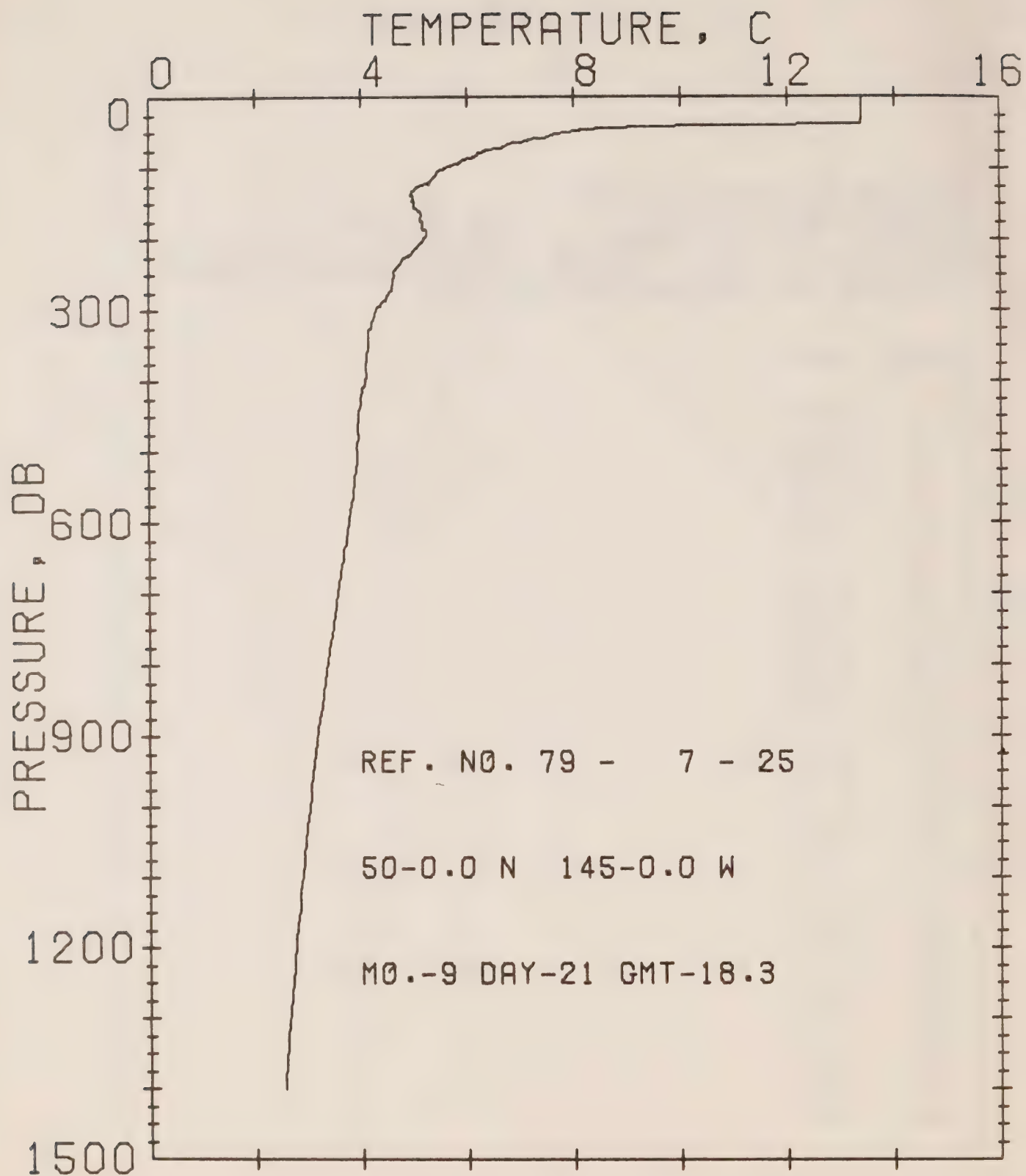
POSITION 50- .0N, 145- .0W GMT 18.3 STATION P

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.38
10	13.38
20	13.38
30	13.38
40	10.27
50	7.95
60	7.16
70	6.71
80	6.22
90	5.91
100	5.58
110	5.44
120	5.32
130	5.04
140	4.98
150	5.00
160	5.06
170	5.11
180	5.16
190	5.24
200	5.19
210	5.08
220	4.98
230	4.79
240	4.71
250	4.63
260	4.61
270	4.59
280	4.50
290	4.43
300	4.30



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 25

DATE 21/ 9/79

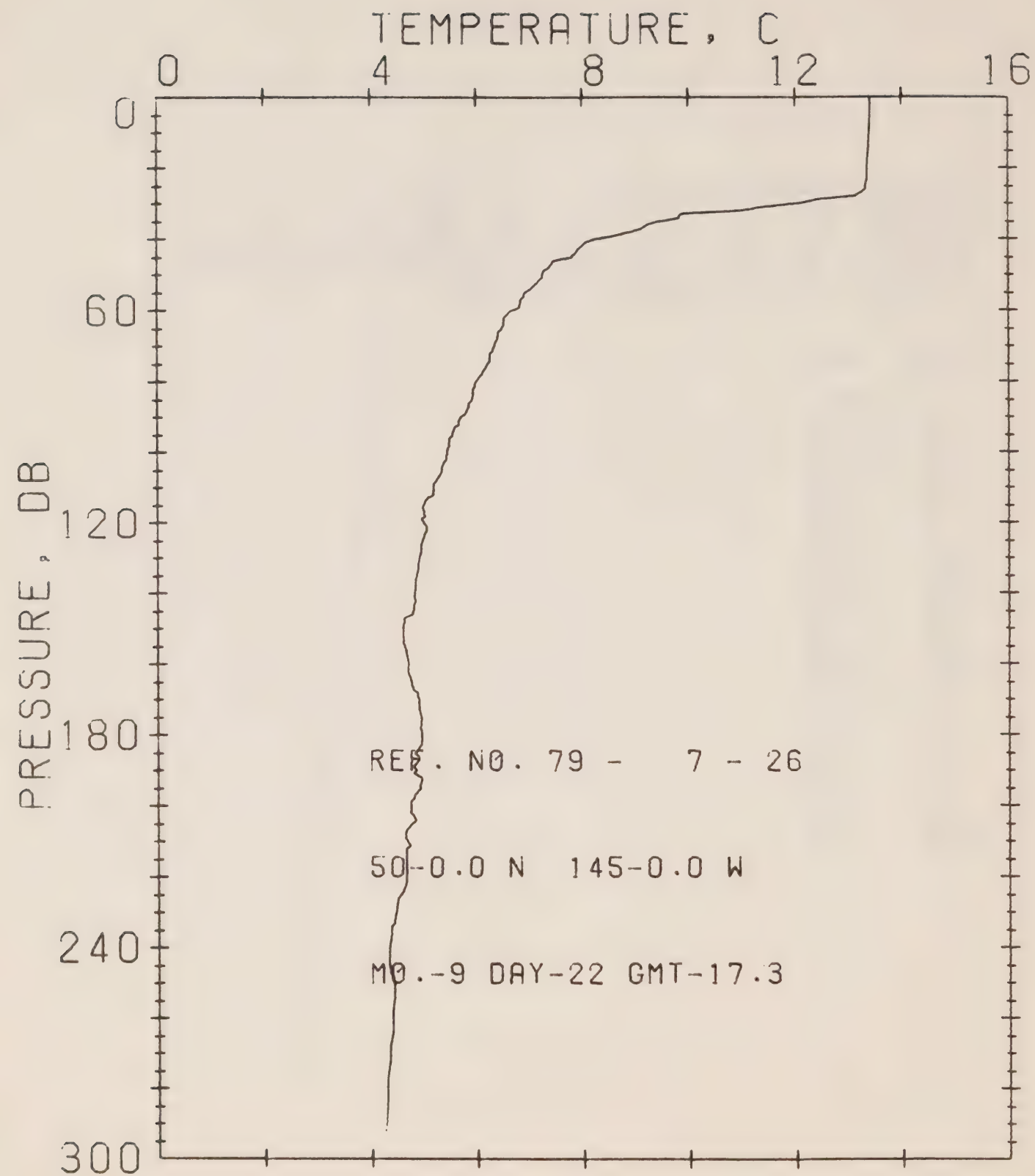
POSITION 50- .0N, 145- .0W GMT 18.3 STATION P

RESULTS OF STP CAST 242 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
-------	------

0	13.38
10	13.38
20	13.38
30	13.38
50	7.95
75	6.35
100	5.58
125	5.10
150	5.00
175	5.16
200	5.19
225	4.85
250	4.63
300	4.30
400	4.09
500	3.92
600	3.77
800	3.35
1000	3.02
1200	2.75



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 26

DATE 22/ 9/79

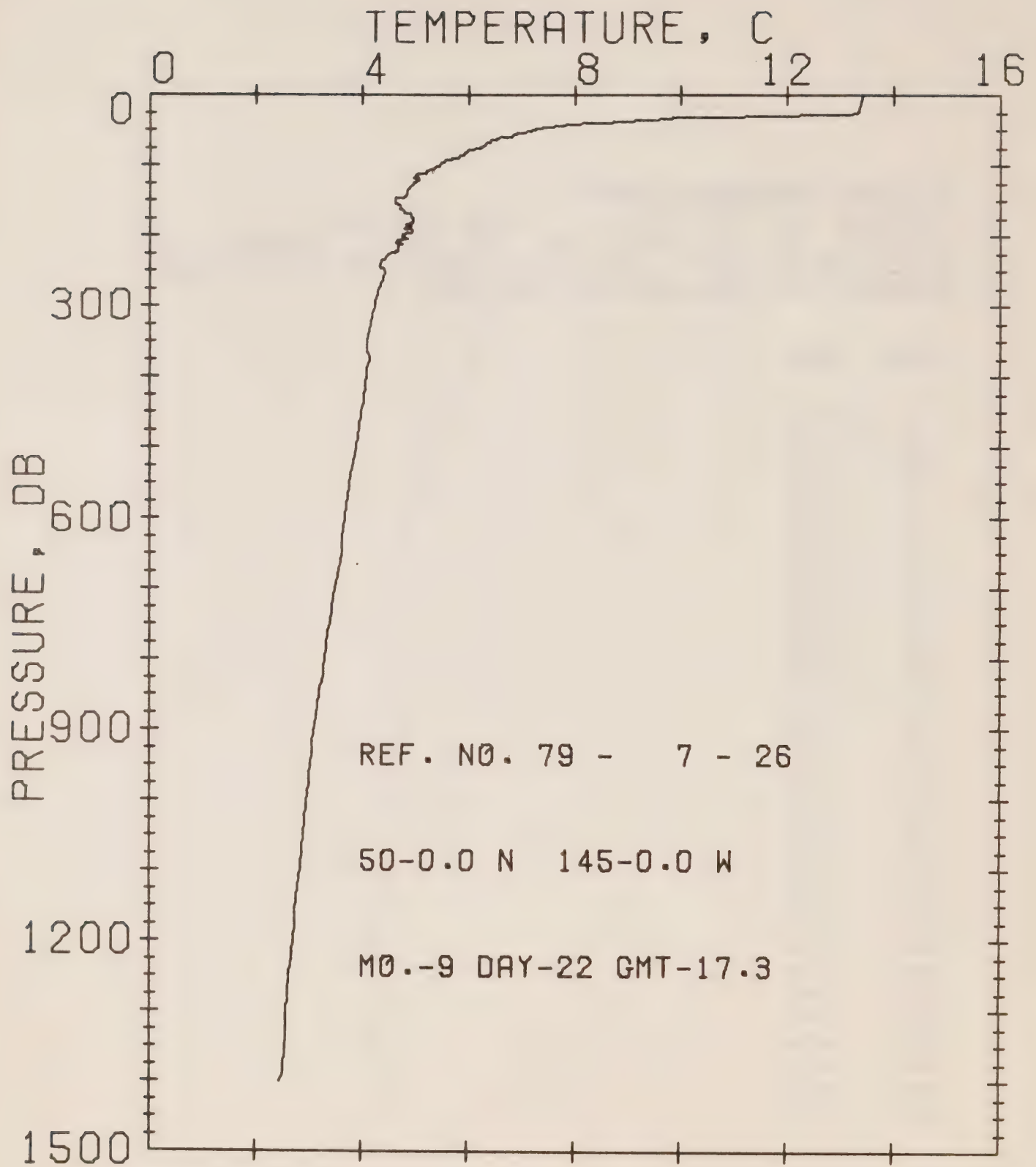
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 179 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.41
10	13.40
20	13.37
30	12.06
40	8.24
50	7.27
60	6.67
70	6.36
80	6.00
90	5.70
100	5.45
110	5.19
120	5.01
130	4.93
140	4.84
150	4.62
160	4.71
170	4.90
180	4.96
190	4.85
200	4.75
210	4.69
220	4.68
230	4.46
240	4.35
250	4.41
260	4.40
270	4.34
280	4.30
290	4.27
300	4.23



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 26

DATE 22/ 9/79

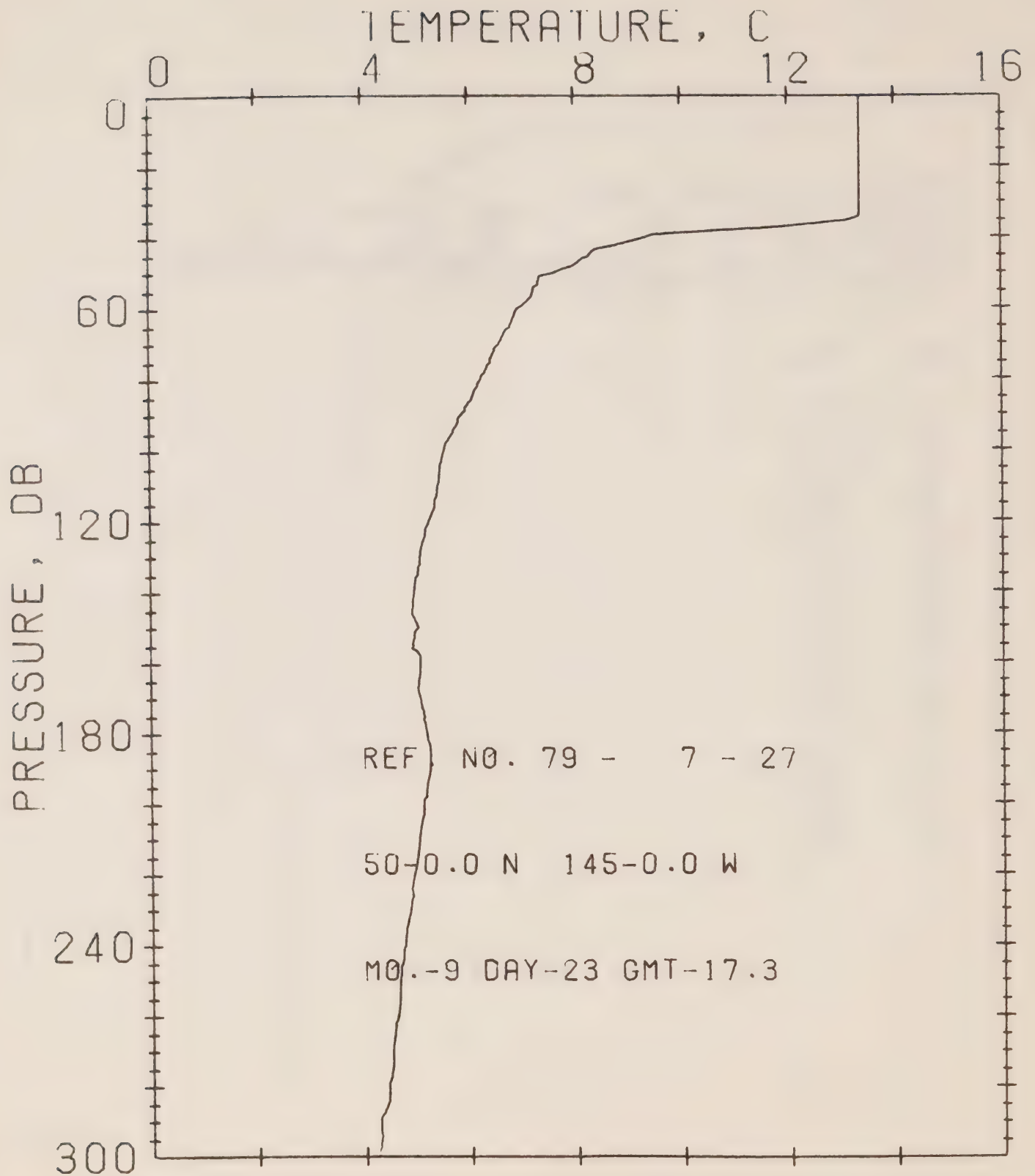
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 262 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.41
10	13.40
20	13.37
30	12.06
50	7.27
75	6.21
100	5.45
125	4.99
150	4.62
175	4.95
200	4.75
225	4.56
250	4.41
300	4.23
400	4.07
500	3.89
600	3.68
800	3.30
1000	2.97
1200	2.71



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 27

DATE 23/ 9/79

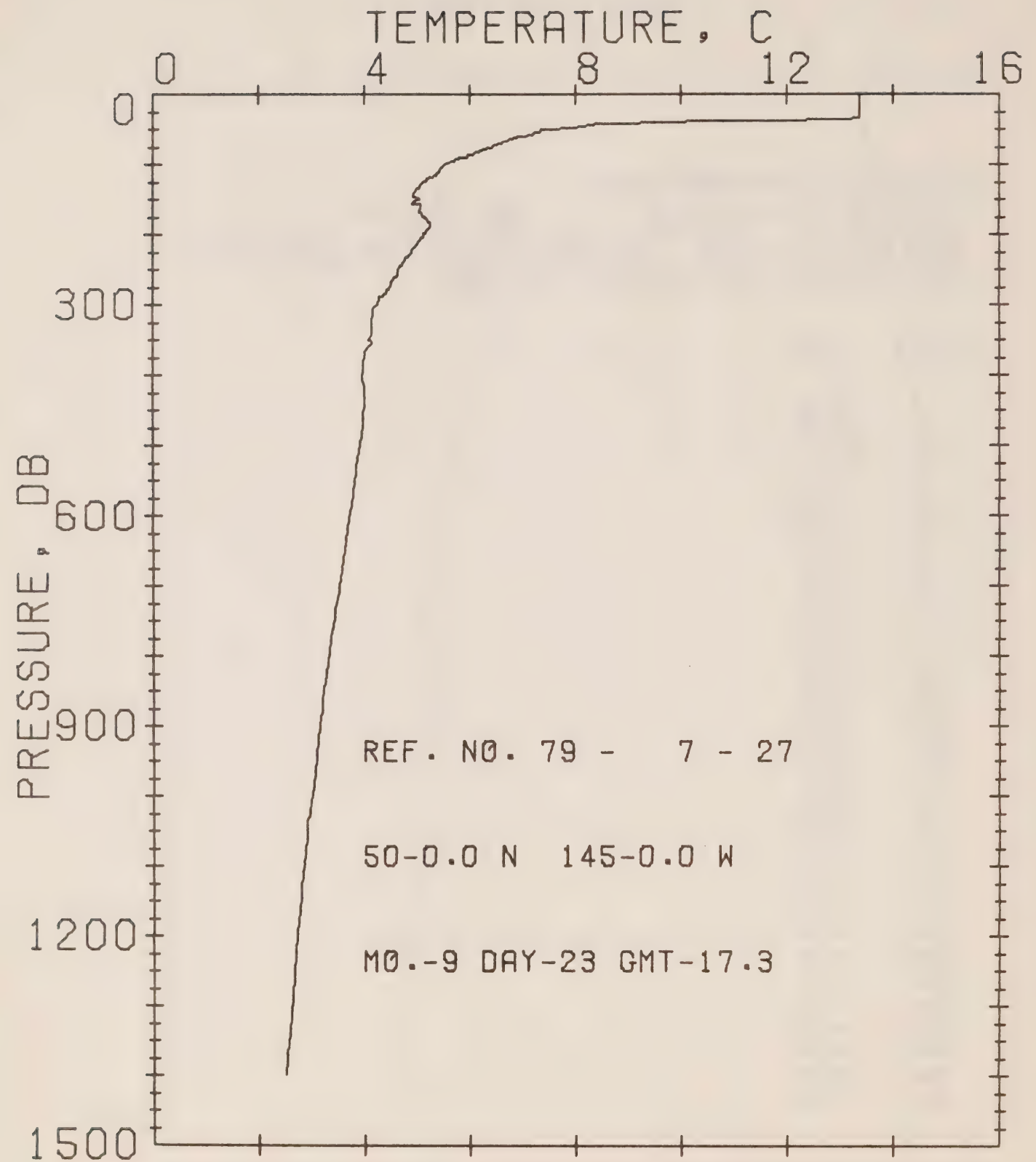
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.36
10	13.36
20	13.37
30	13.37
40	9.35
50	7.63
60	6.93
70	6.59
80	6.23
90	5.87
100	5.53
110	5.42
120	5.25
130	5.07
140	4.95
150	5.04
160	5.06
170	5.06
180	5.18
190	5.24
200	5.12
210	5.04
220	4.93
230	4.86
240	4.74
250	4.65
260	4.61
270	4.52
280	4.42
290	4.28
300	4.25



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 27

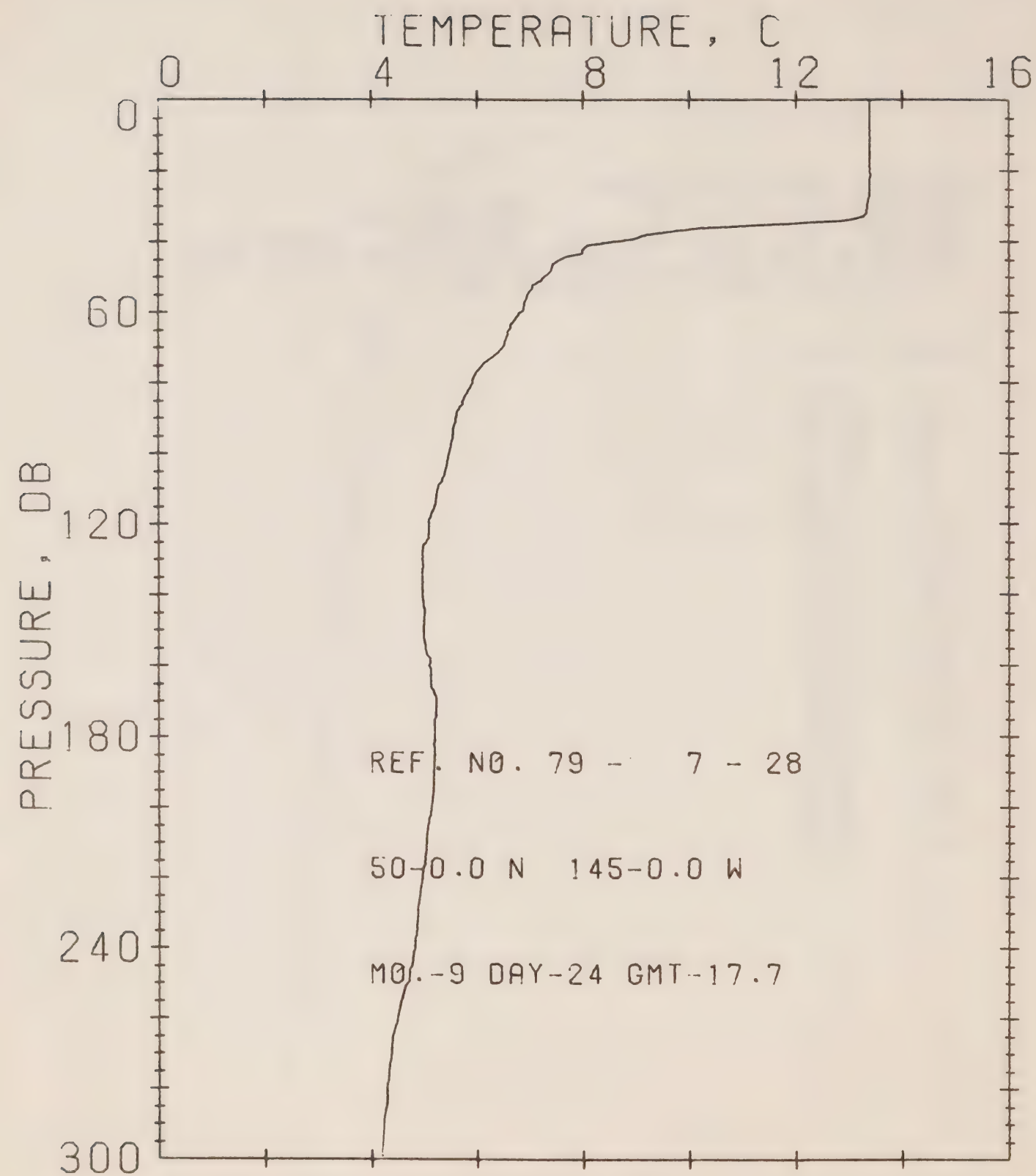
DATE 23/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 241 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.36
10	13.36
20	13.37
30	13.37
50	7.63
75	6.43
100	5.53
125	5.14
150	5.04
175	5.14
200	5.12
225	4.89
250	4.65
300	4.25
400	3.96
500	3.92
600	3.72
800	3.32
1000	3.01
1200	2.72



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 28

DATE 24/ 9/79

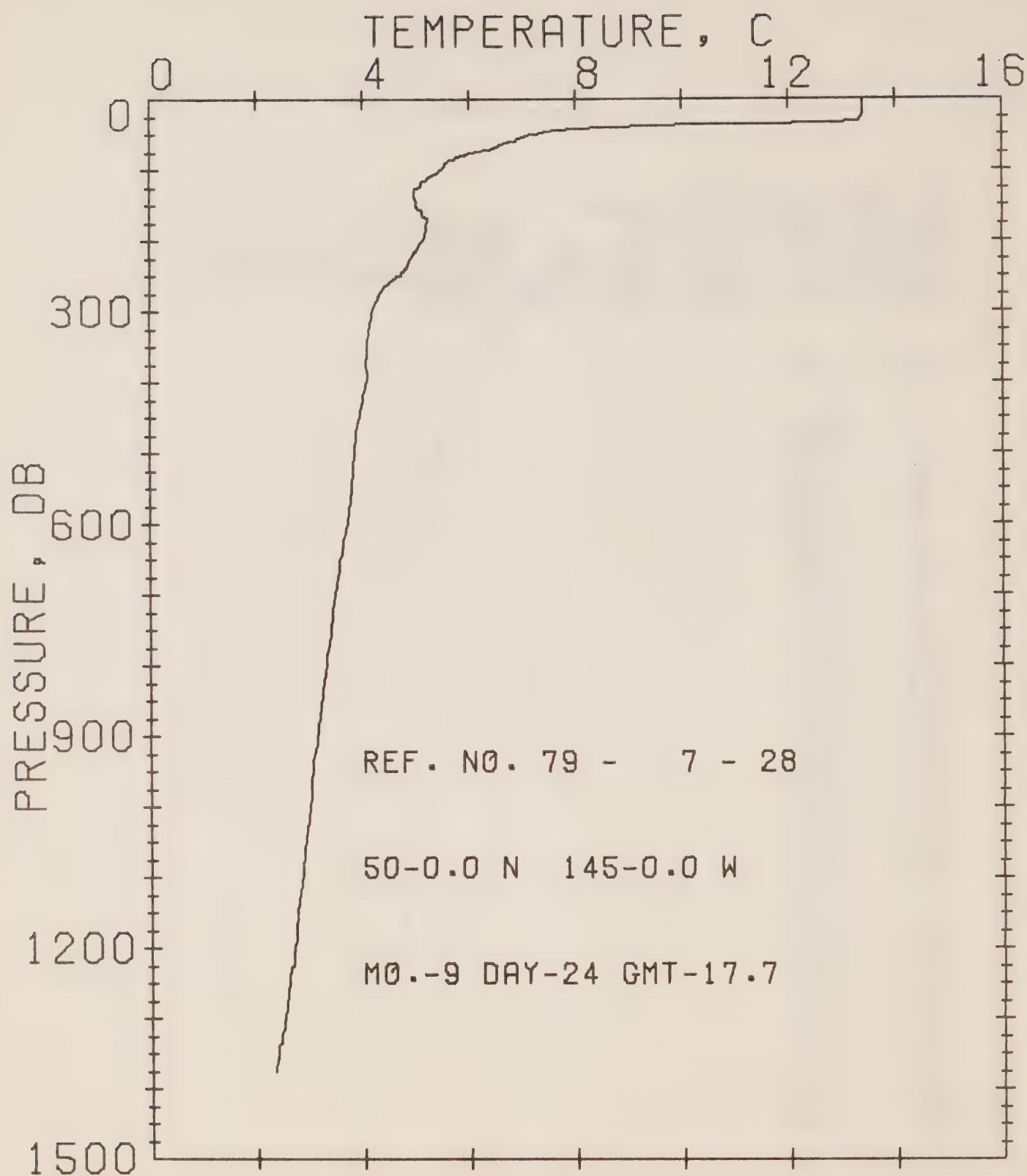
POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 149 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.38
10	13.38
20	13.40
30	13.35
40	8.50
50	7.24
60	6.81
70	6.49
80	5.92
90	5.61
100	5.48
110	5.26
120	5.09
130	4.95
140	4.97
150	4.99
160	5.09
170	5.22
180	5.21
190	5.18
200	5.14
210	5.05
220	4.95
230	4.88
240	4.83
250	4.69
260	4.50
270	4.38
280	4.30
290	4.22
300	4.19



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 28

DATE 24/ 9/79

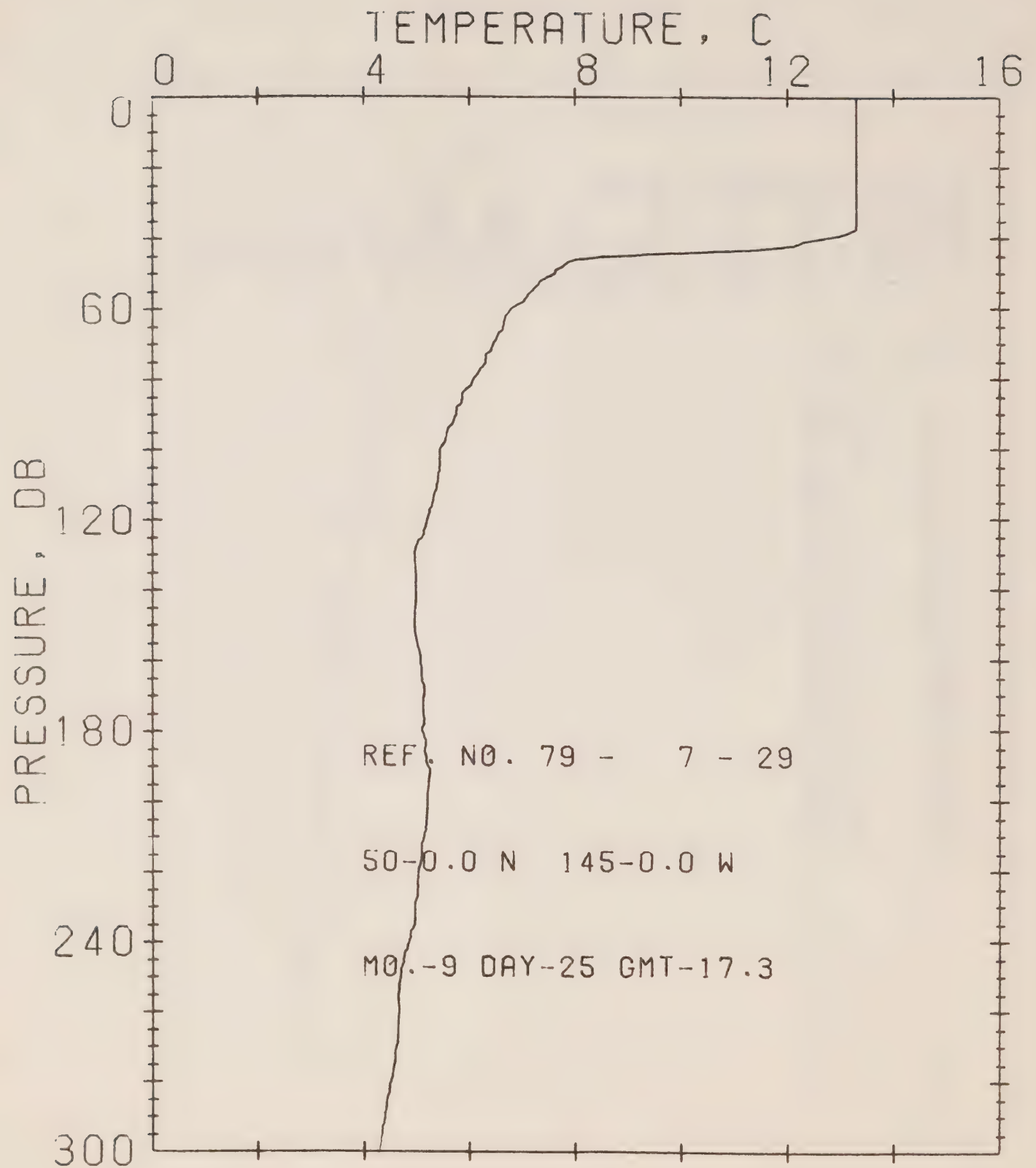
POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.38
10	13.38
20	13.40
30	13.35
50	7.24
75	6.09
100	5.48
125	5.03
150	4.99
175	5.21
200	5.14
225	4.92
250	4.69
300	4.19
400	4.06
500	3.84
600	3.71
800	3.29
1000	2.98
1200	2.70



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 29

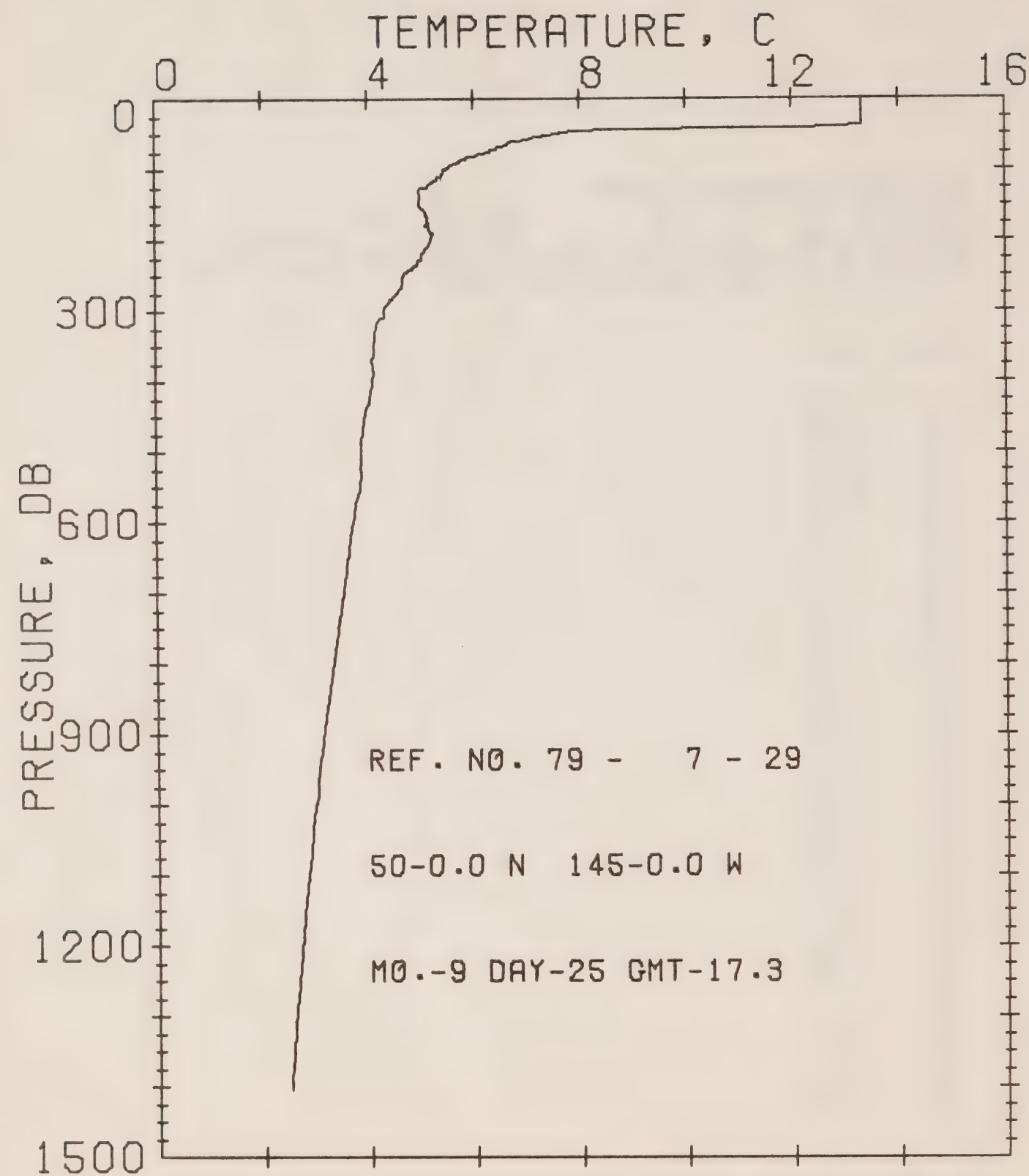
DATE 25/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 174 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.31
10	13.31
20	13.31
30	13.30
40	12.65
50	7.64
60	6.80
70	6.45
80	6.09
90	5.75
100	5.45
110	5.40
120	5.21
130	4.97
140	4.98
150	4.95
160	5.07
170	5.14
180	5.10
190	5.21
200	5.20
210	5.14
220	5.04
230	4.97
240	4.86
250	4.70
260	4.67
270	4.62
280	4.51
290	4.40
300	4.30



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 29

DATE 25/ 9/79

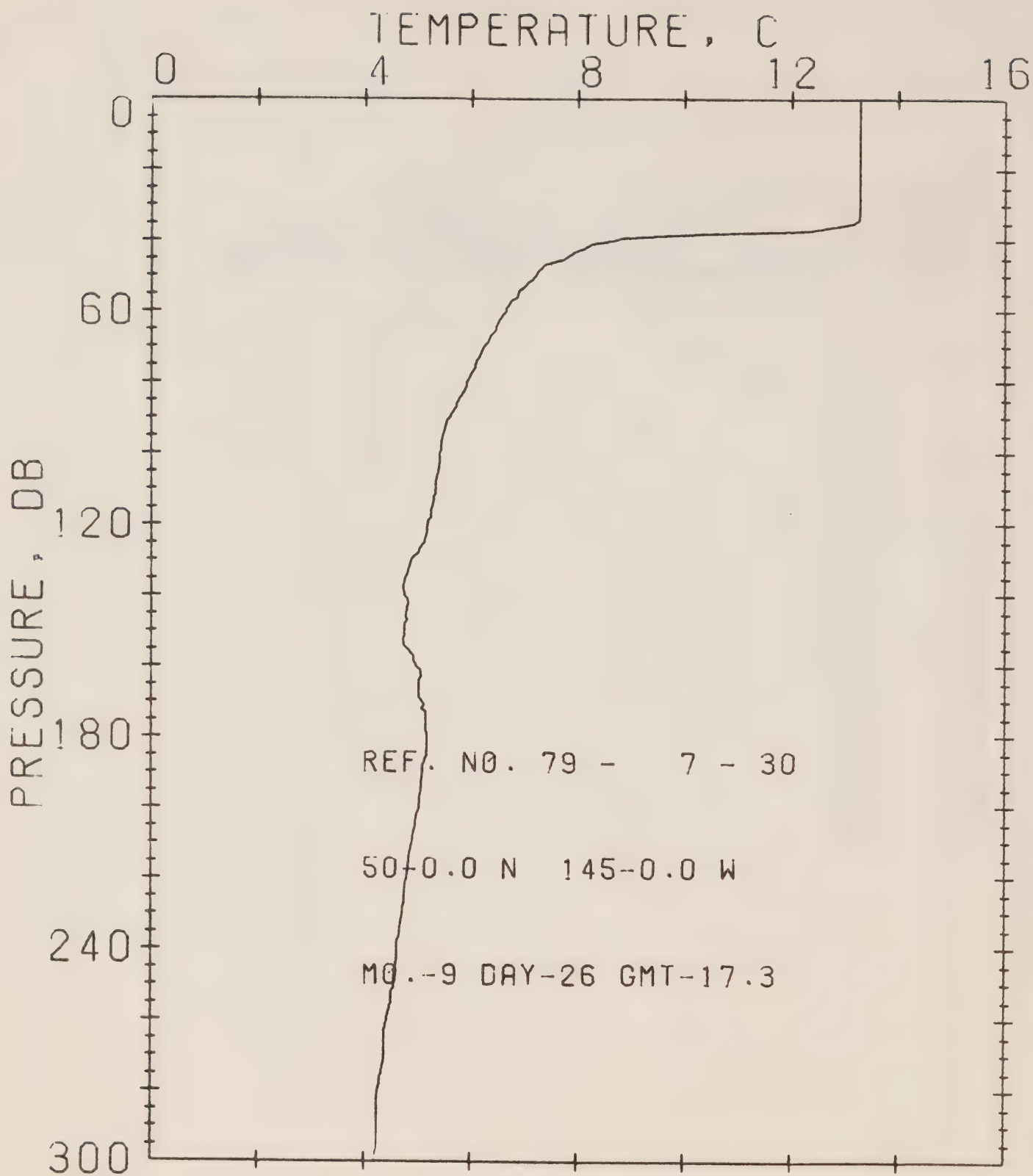
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 251 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.31
10	13.31
20	13.31
30	13.30
50	7.64
75	6.31
100	5.45
125	5.12
150	4.95
175	5.13
200	5.20
225	5.00
250	4.70
300	4.30
400	4.09
500	3.87
600	3.71
800	3.33
1000	2.98
1200	2.70



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 30

DATE 26/ 9/79

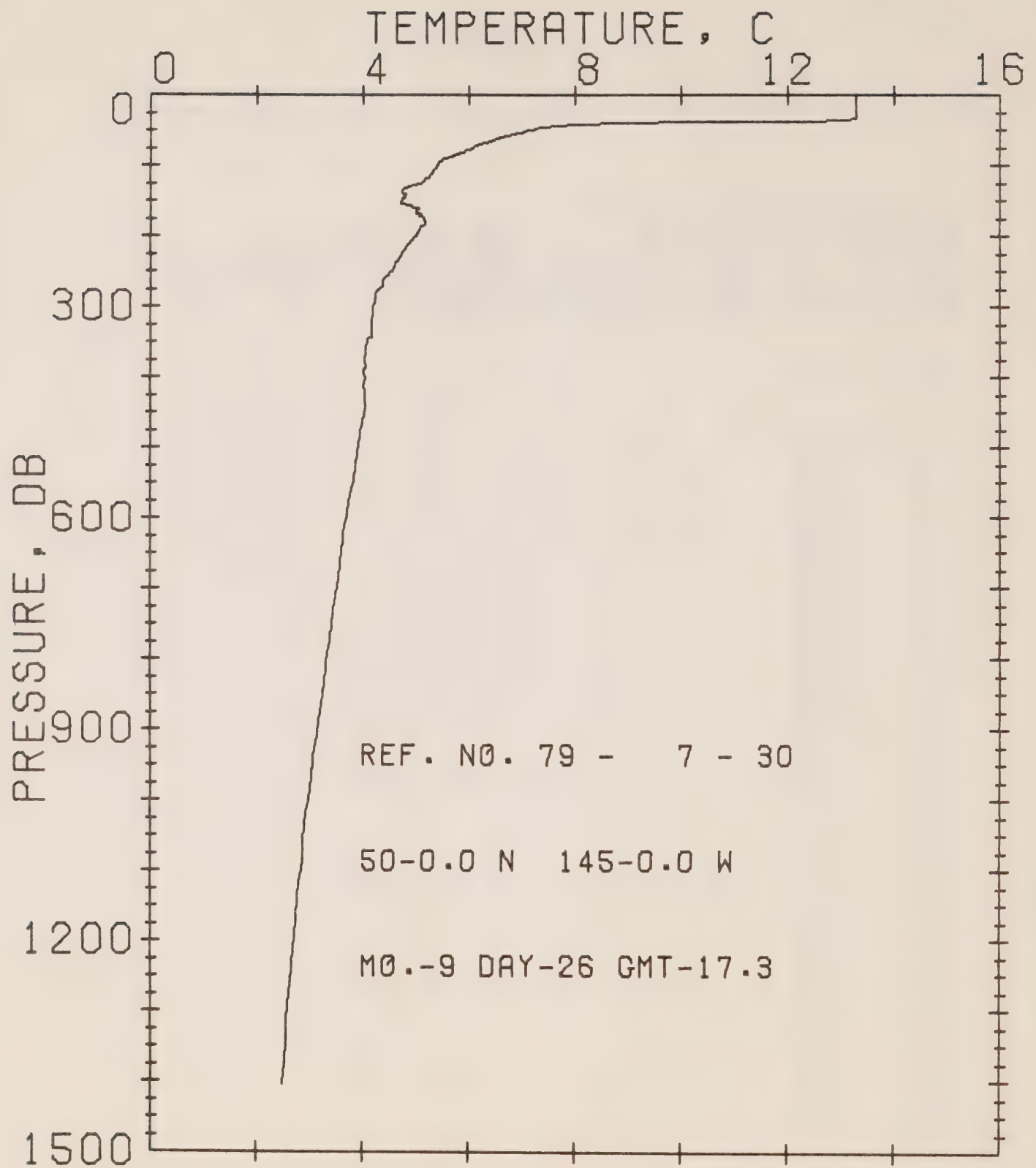
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.27
10	13.27
20	13.27
30	13.27
40	8.69
50	7.23
60	6.68
70	6.25
80	5.93
90	5.61
100	5.42
110	5.33
120	5.19
130	4.89
140	4.74
150	4.76
160	4.95
170	5.06
180	5.17
190	5.09
200	5.03
210	4.89
220	4.79
230	4.72
240	4.61
250	4.57
260	4.42
270	4.38
280	4.25
290	4.24
300	4.20



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 30

DATE 26/ 9/79

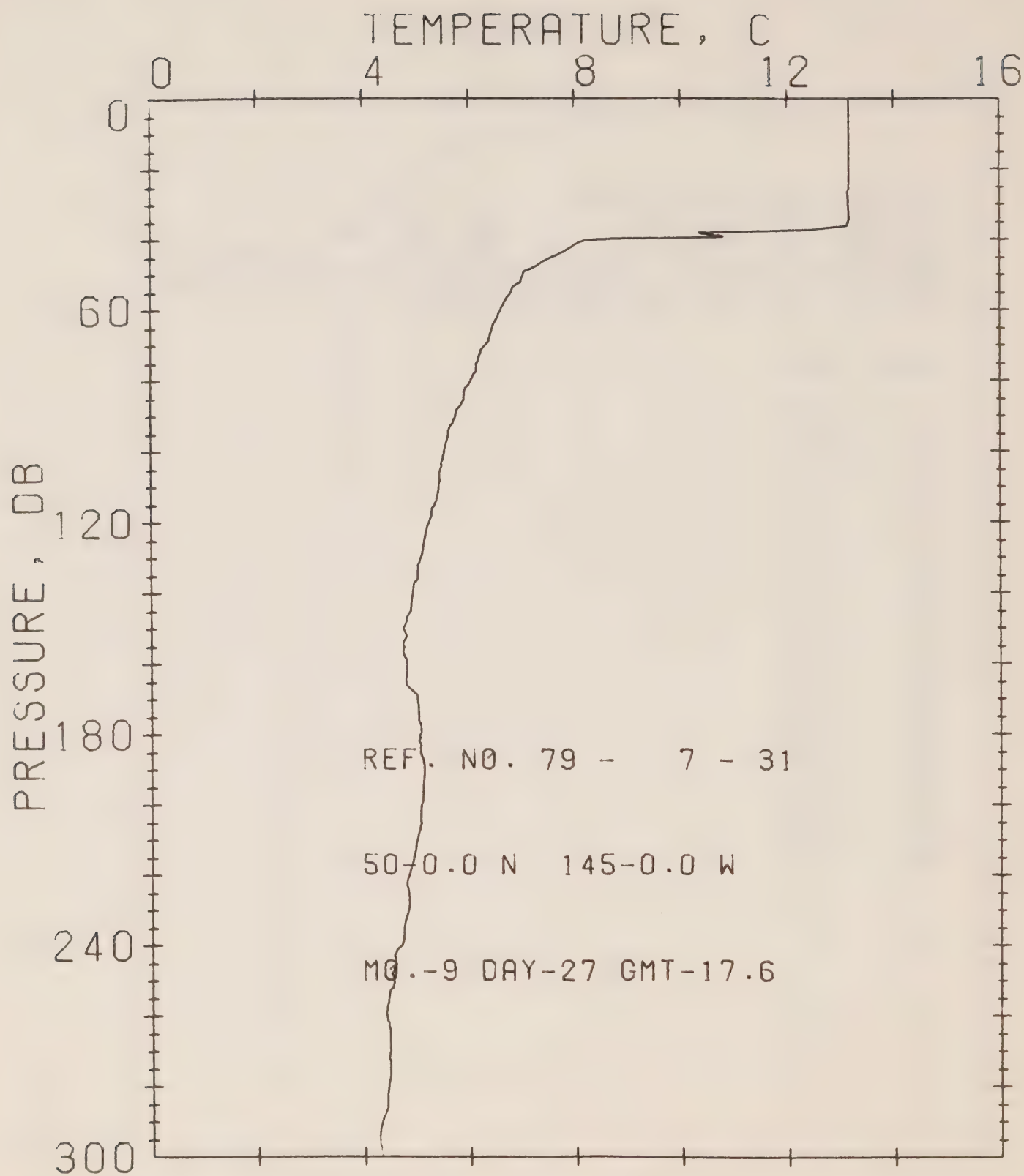
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 276 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.27
10	13.27
20	13.27
30	13.27
50	7.23
75	6.09
100	5.42
125	5.13
150	4.76
175	5.15
200	5.03
225	4.76
250	4.57
300	4.20
400	4.03
500	3.93
600	3.70
800	3.33
1000	2.98
1200	2.72



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 31

DATE 27/ 9/79

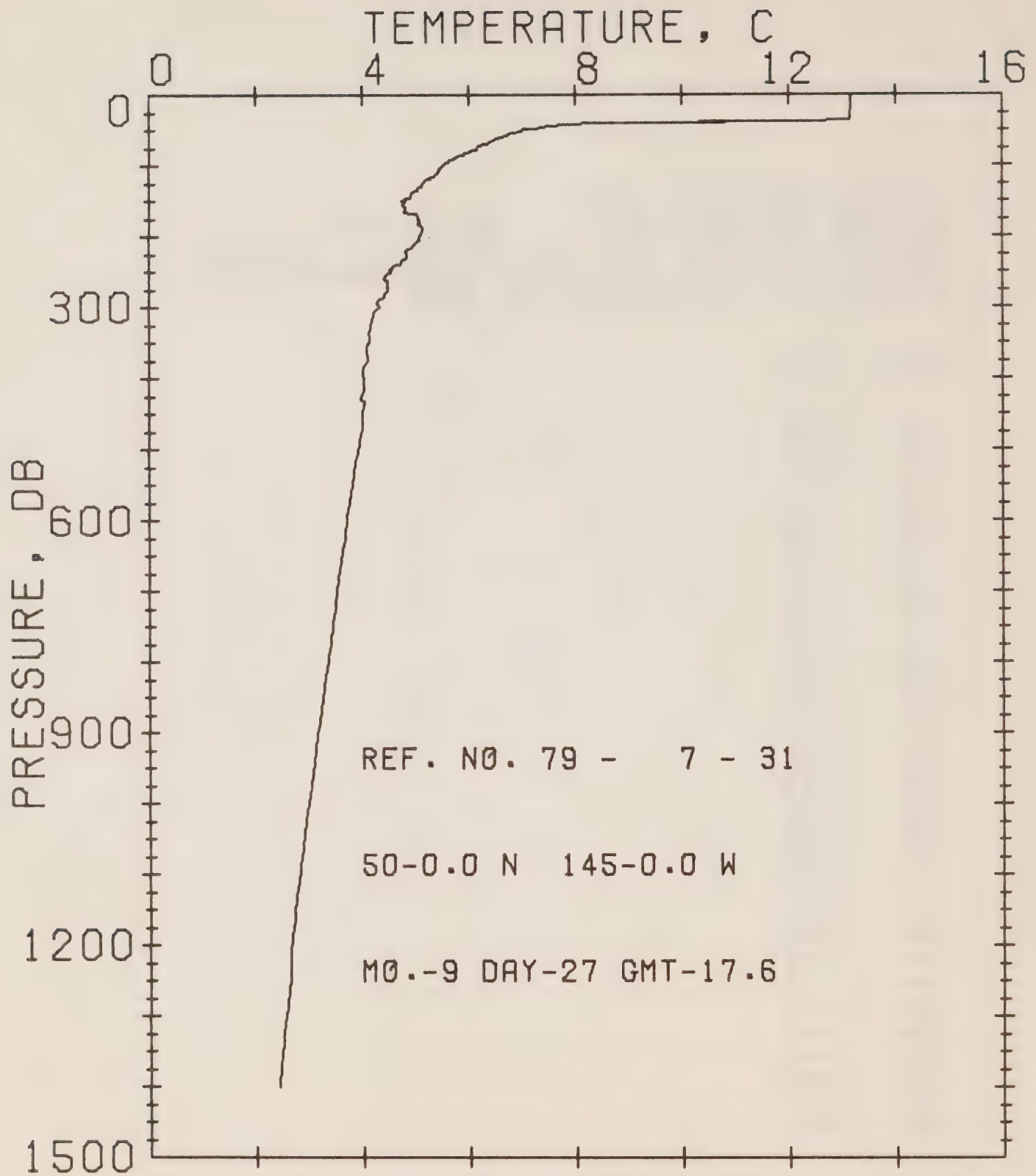
POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 179 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.17
10	13.17
20	13.16
30	13.15
40	8.23
50	7.05
60	6.61
70	6.32
80	6.05
90	5.76
100	5.55
110	5.44
120	5.25
130	5.09
140	4.94
150	4.74
160	4.82
170	5.02
180	5.08
190	5.14
200	5.09
210	5.01
220	4.85
230	4.85
240	4.71
250	4.57
260	4.42
270	4.48
280	4.45
290	4.31
300	4.31



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 31

DATE 27/ 9/79

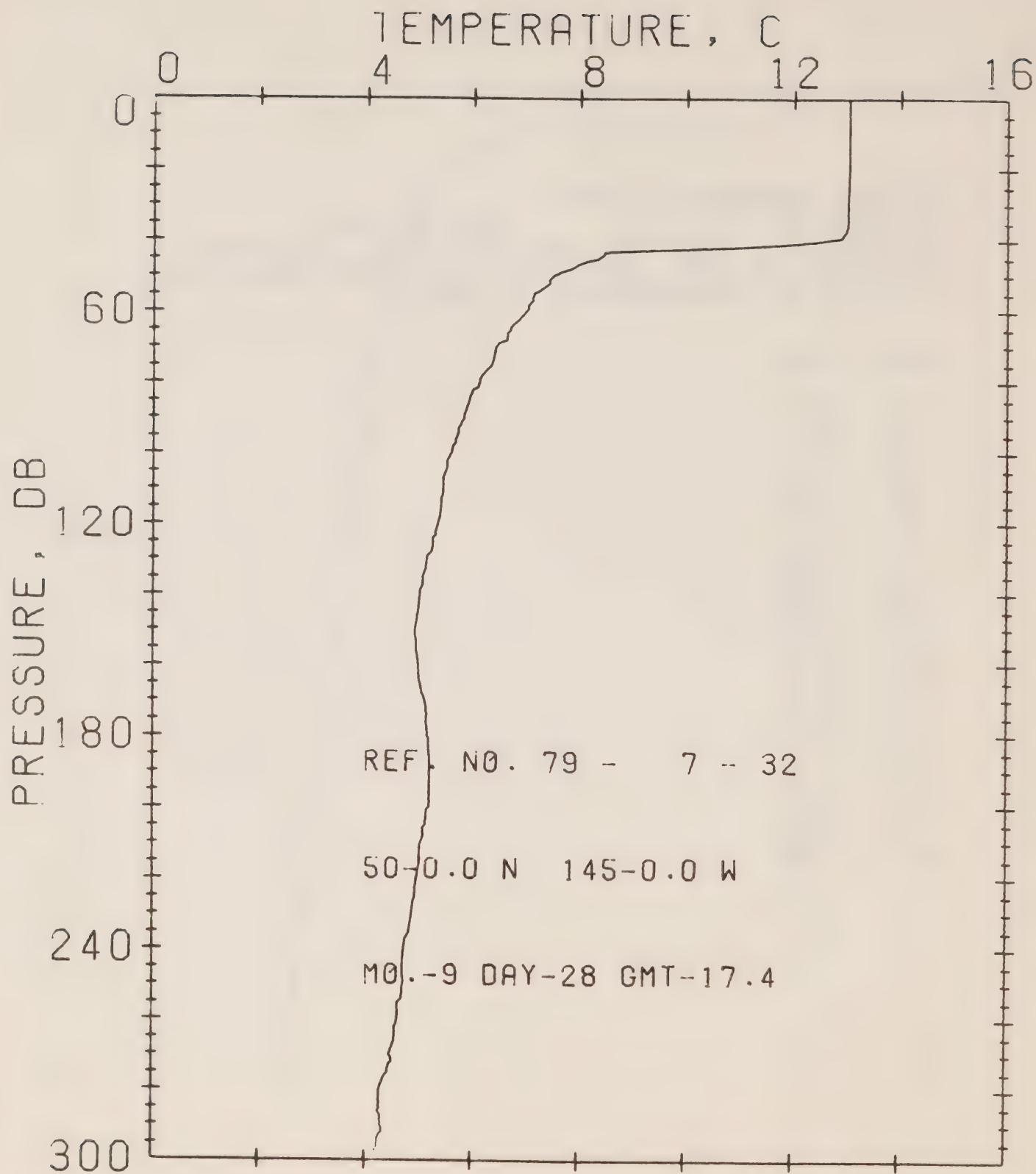
POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 270 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.17
10	13.17
20	13.16
30	13.15
50	7.05
75	6.15
100	5.55
125	5.15
150	4.74
175	5.04
200	5.09
225	4.84
250	4.57
300	4.31
400	4.03
500	3.94
600	3.70
800	3.36
1000	2.99
1200	2.66



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 32

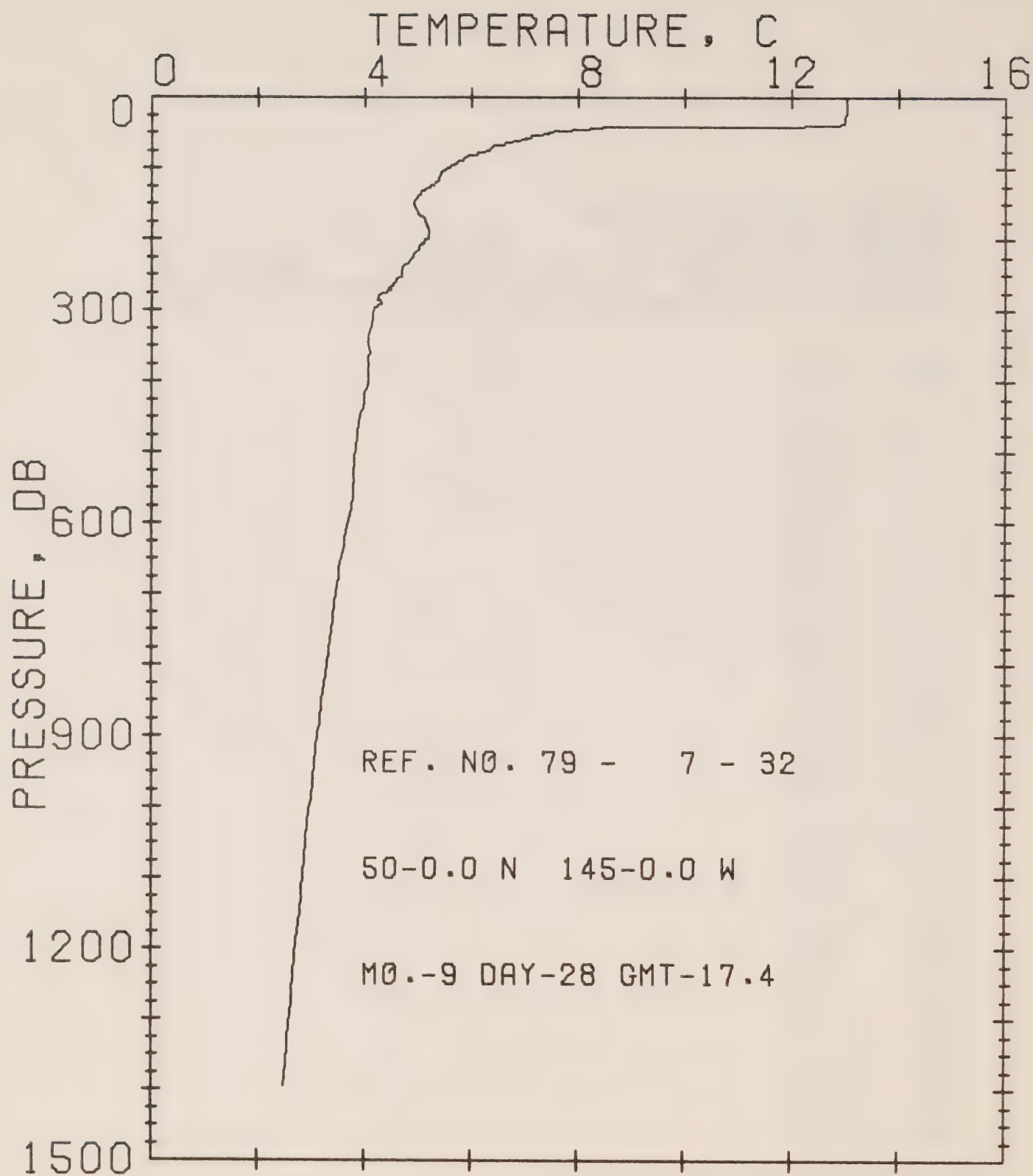
DATE 28/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.03
10	13.03
20	13.03
30	13.02
40	12.53
50	7.50
60	6.99
70	6.44
80	6.12
90	5.84
100	5.60
110	5.44
120	5.35
130	5.14
140	5.00
150	4.92
160	4.97
170	5.10
180	5.15
190	5.21
200	5.19
210	5.04
220	4.97
230	4.88
240	4.72
250	4.70
260	4.60
270	4.46
280	4.28
290	4.30
300	4.19



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 32

DATE 28/ 9/79

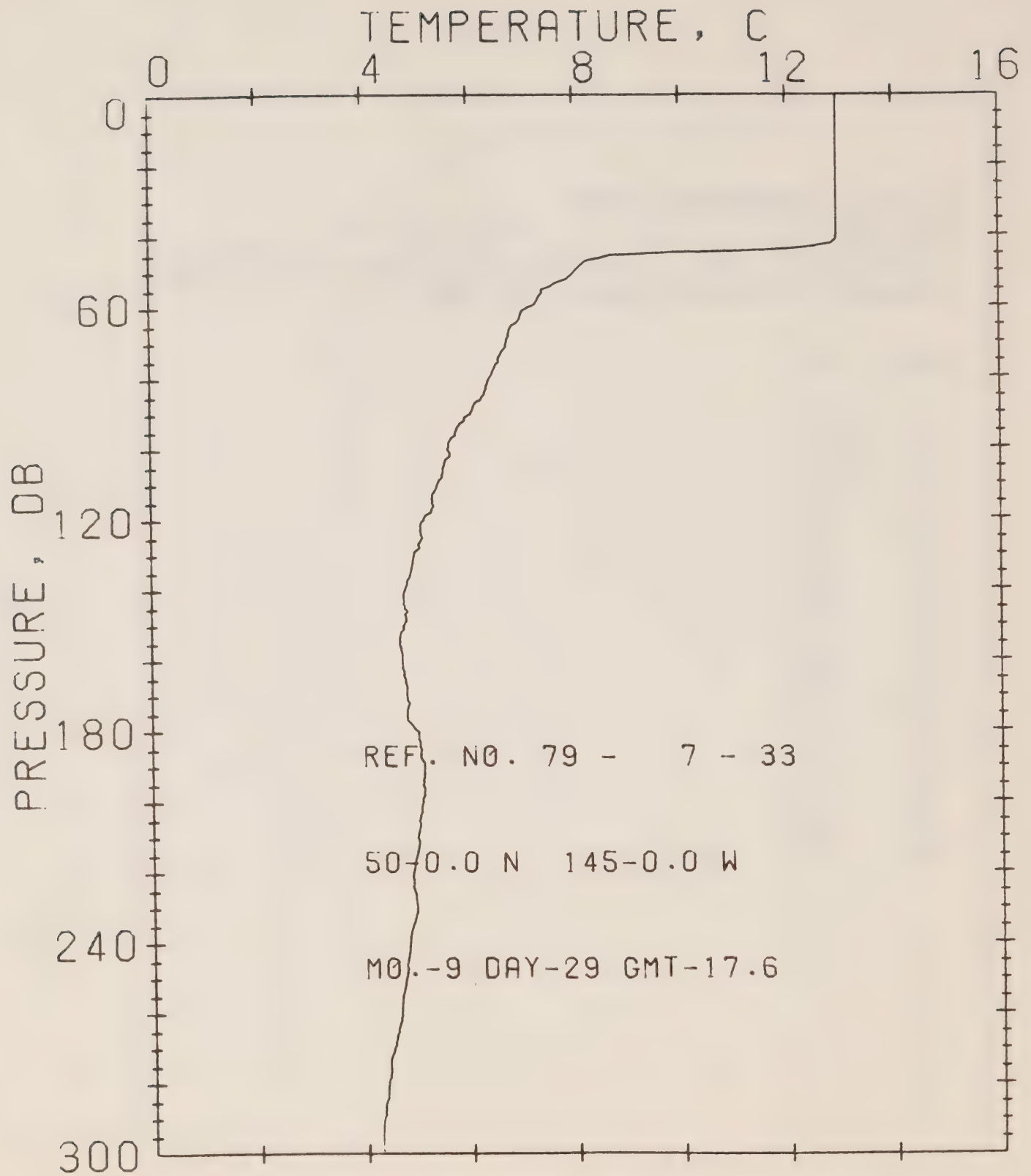
POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 239 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.03
10	13.03
20	13.03
30	13.02
50	7.50
75	6.34
100	5.60
125	5.26
150	4.92
175	5.13
200	5.19
225	4.93
250	4.70
300	4.19
400	4.07
500	3.83
600	3.69
800	3.30
1000	2.98
1200	2.72



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 33

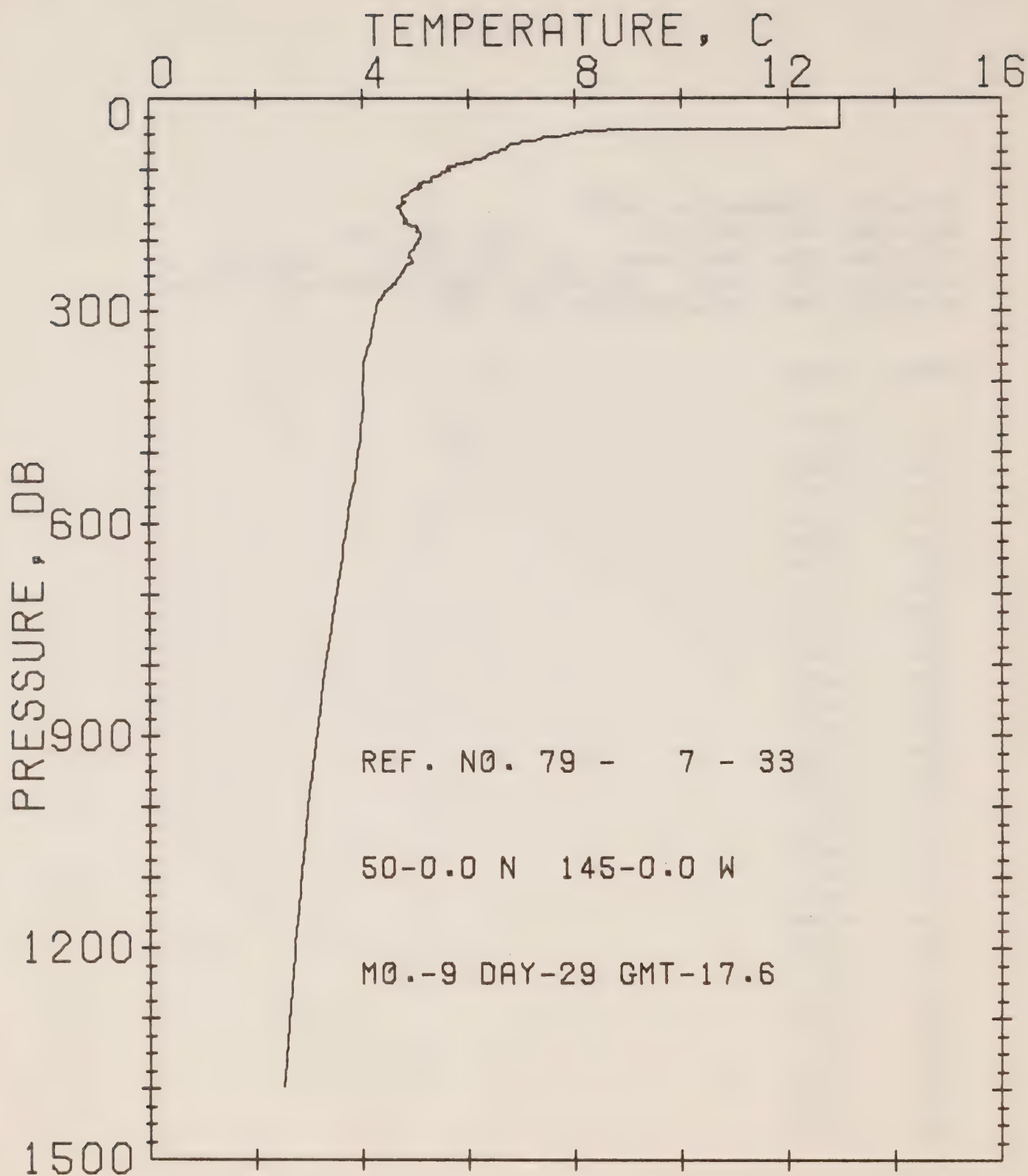
DATE 29/ 9/79

POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.96
10	12.96
20	12.96
30	12.96
40	12.95
50	8.04
60	7.14
70	6.73
80	6.41
90	6.05
100	5.60
110	5.41
120	5.15
130	4.95
140	4.78
150	4.75
160	4.72
170	4.79
180	5.00
190	5.11
200	5.10
210	4.99
220	4.90
230	4.97
240	4.81
250	4.75
260	4.64
270	4.51
280	4.38
290	4.30
300	4.26



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 33

DATE 29/ 9/79

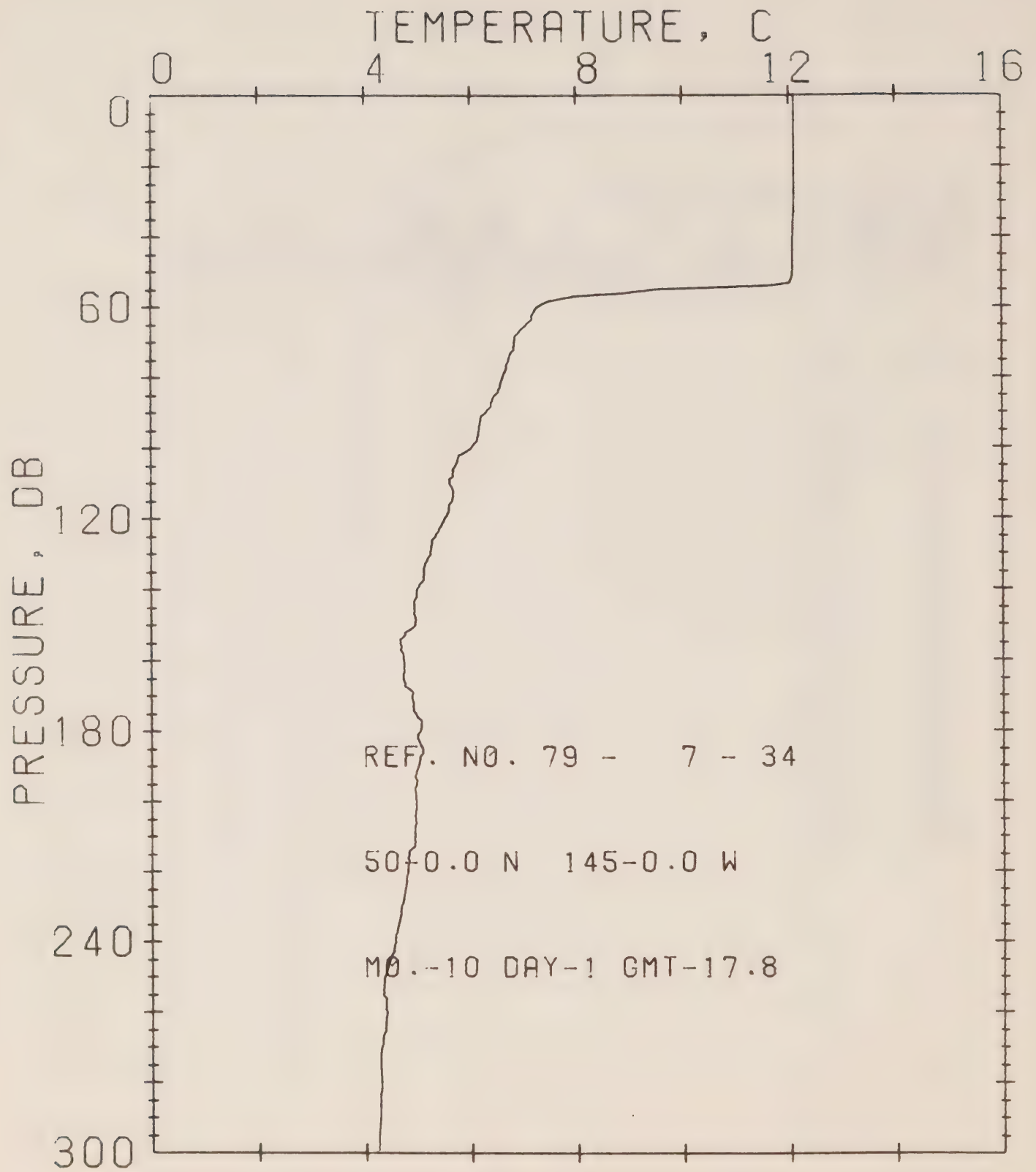
POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.96
10	12.96
20	12.96
30	12.96
50	8.04
75	6.59
100	5.60
125	5.12
150	4.75
175	4.80
200	5.10
225	4.91
250	4.75
300	4.26
400	4.02
500	3.93
600	3.71
800	3.30
1000	2.97
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 34

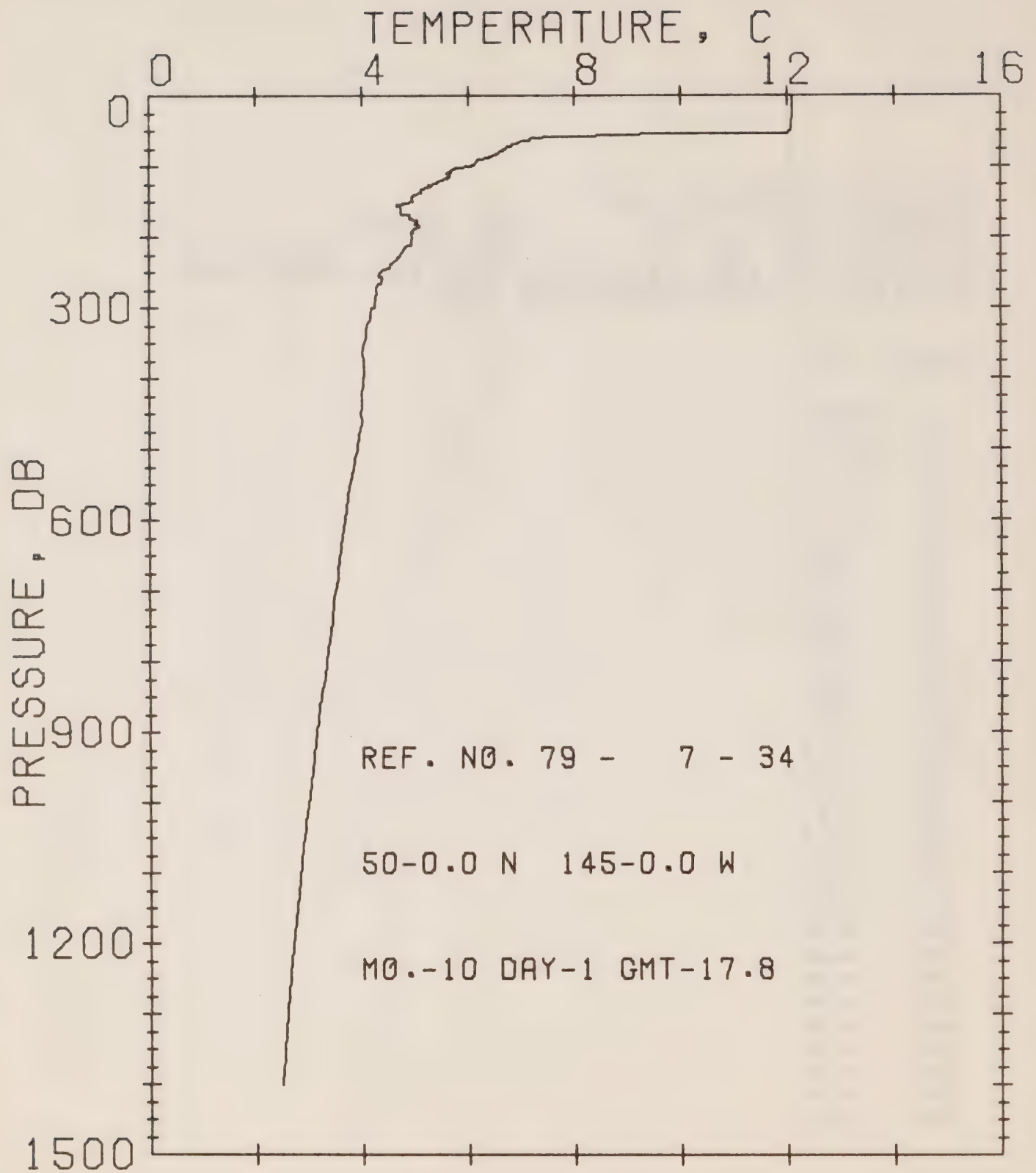
DATE 1/10/79

POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 166 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.10
10	12.10
20	12.10
30	12.10
40	12.09
50	12.09
60	7.24
70	6.85
80	6.61
90	6.29
100	6.02
110	5.60
120	5.52
130	5.24
140	4.99
150	4.96
160	4.72
170	4.87
180	5.03
190	5.01
200	4.95
210	4.94
220	4.79
230	4.68
240	4.56
250	4.34
260	4.39
270	4.30
280	4.29
290	4.27
300	4.20



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 34

DATE 1/10/79

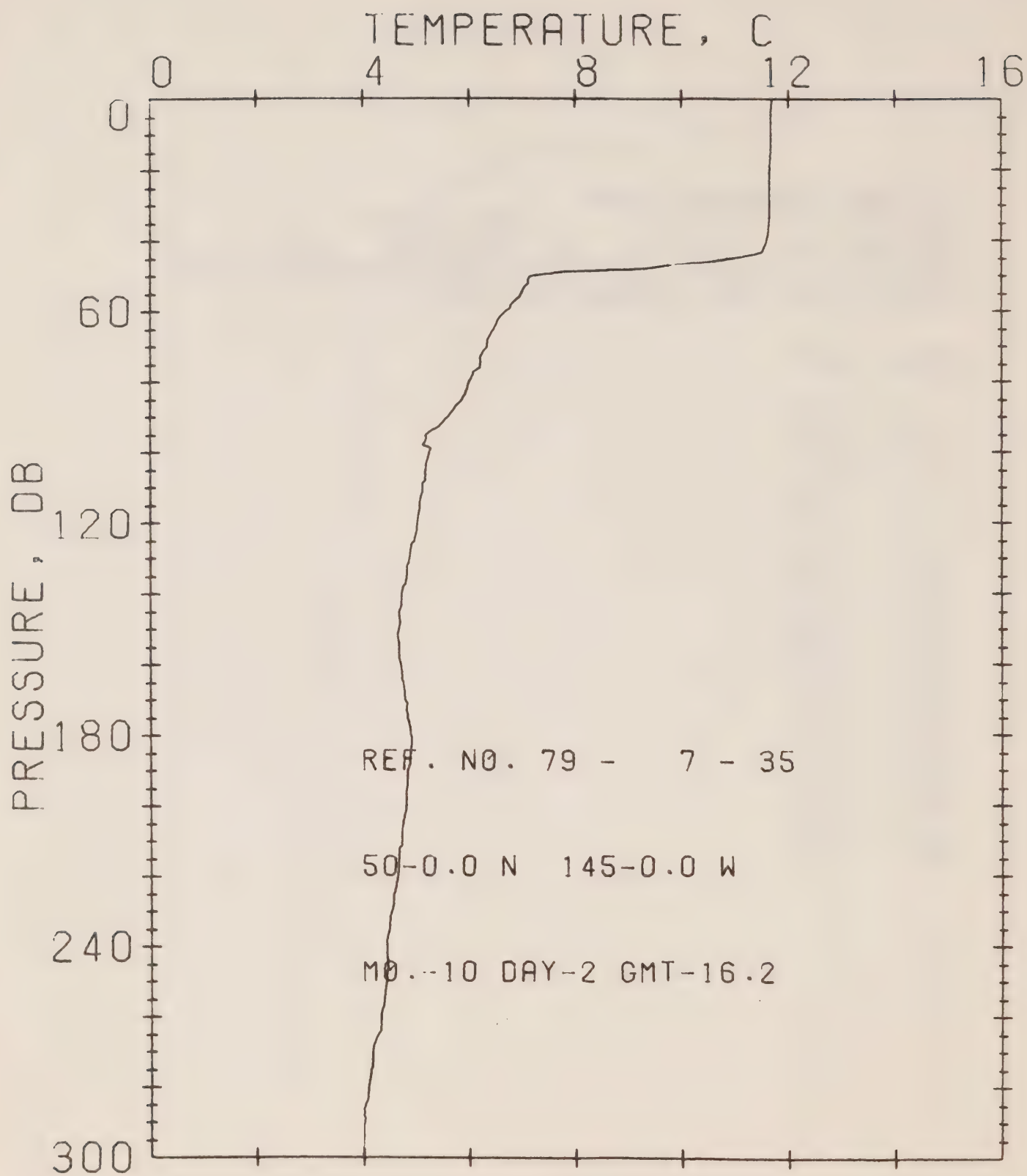
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 245 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.10
10	12.10
20	12.10
30	12.10
50	12.09
75	6.72
100	6.02
125	5.34
150	4.96
175	4.97
200	4.95
225	4.75
250	4.34
300	4.20
400	4.03
500	3.91
600	3.67
800	3.33
1000	2.99
1200	2.71



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 35

DATE 2/10/79

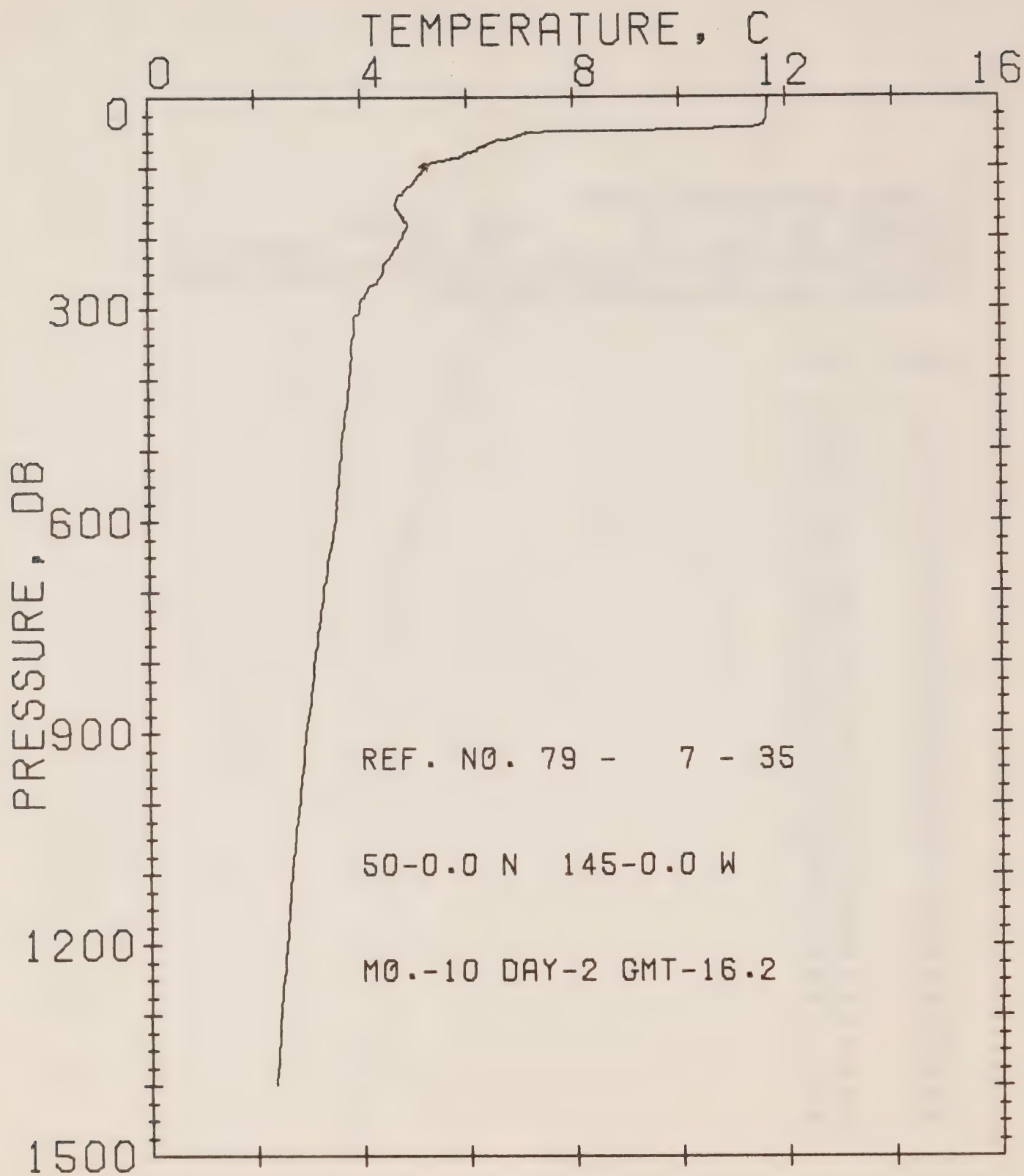
POSITION 50- .0N, 145- .0W GMT 16.2 STATION P

RESULTS OF STP CAST 155 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.70
10	11.68
20	11.66
30	11.65
40	11.60
50	7.14
60	6.70
70	6.35
80	6.00
90	5.60
100	5.25
110	5.12
120	5.03
130	4.87
140	4.72
150	4.68
160	4.69
170	4.78
180	4.89
190	4.84
200	4.79
210	4.73
220	4.63
230	4.52
240	4.44
250	4.42
260	4.33
270	4.17
280	4.10
290	4.01
300	3.98



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 35

DATE 2/10/79

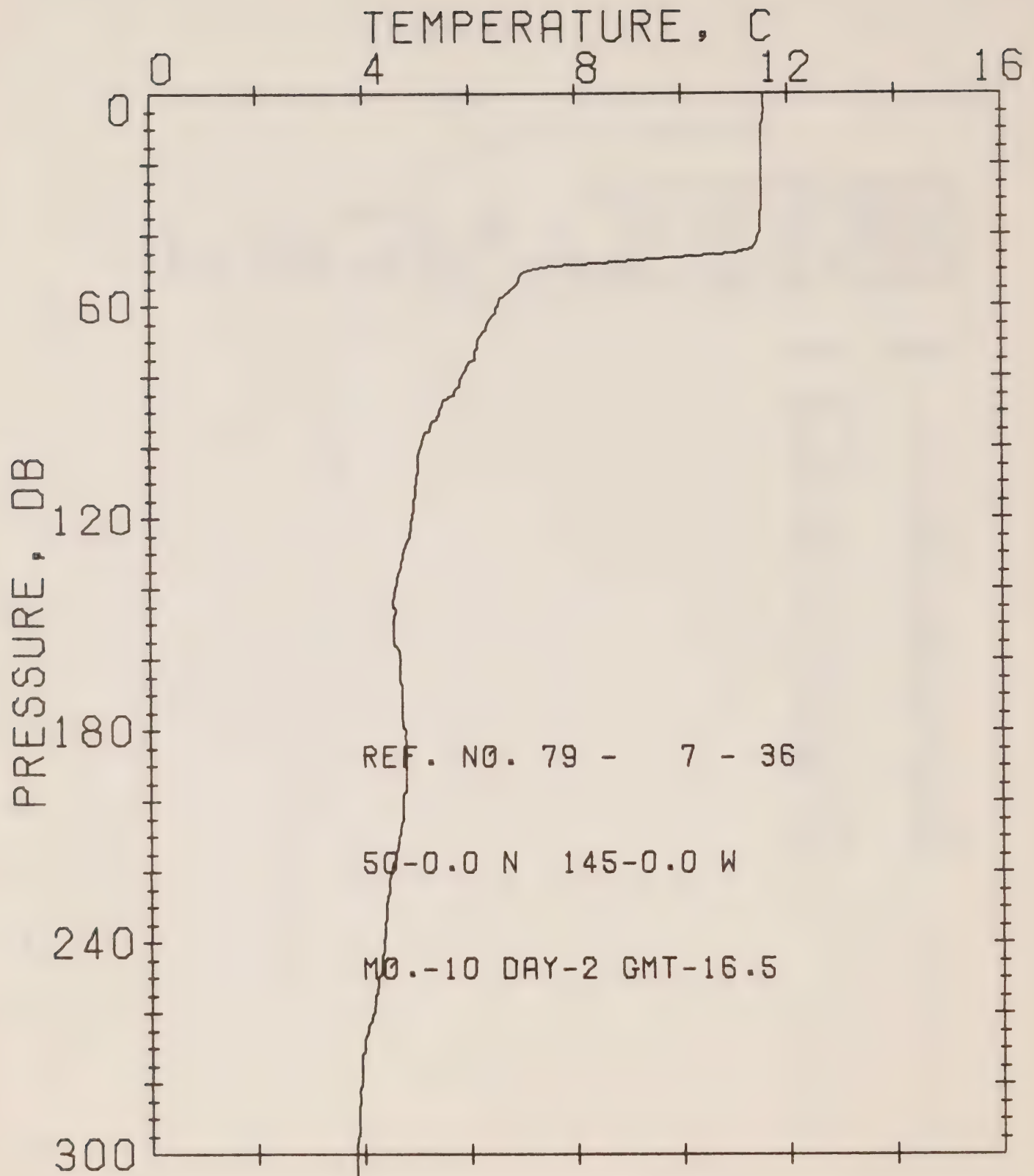
POSITION 50- .0N, 145- .0W GMT 16.2 STATION P

RESULTS OF STP CAST 266 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.70
10	11.68
20	11.66
30	11.65
50	7.14
75	6.21
100	5.25
125	4.97
150	4.68
175	4.84
200	4.79
225	4.56
250	4.42
300	3.98
400	3.79
500	3.62
600	3.53
800	3.11
1000	2.81
1200	2.56



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 36 DATE 2/10/79

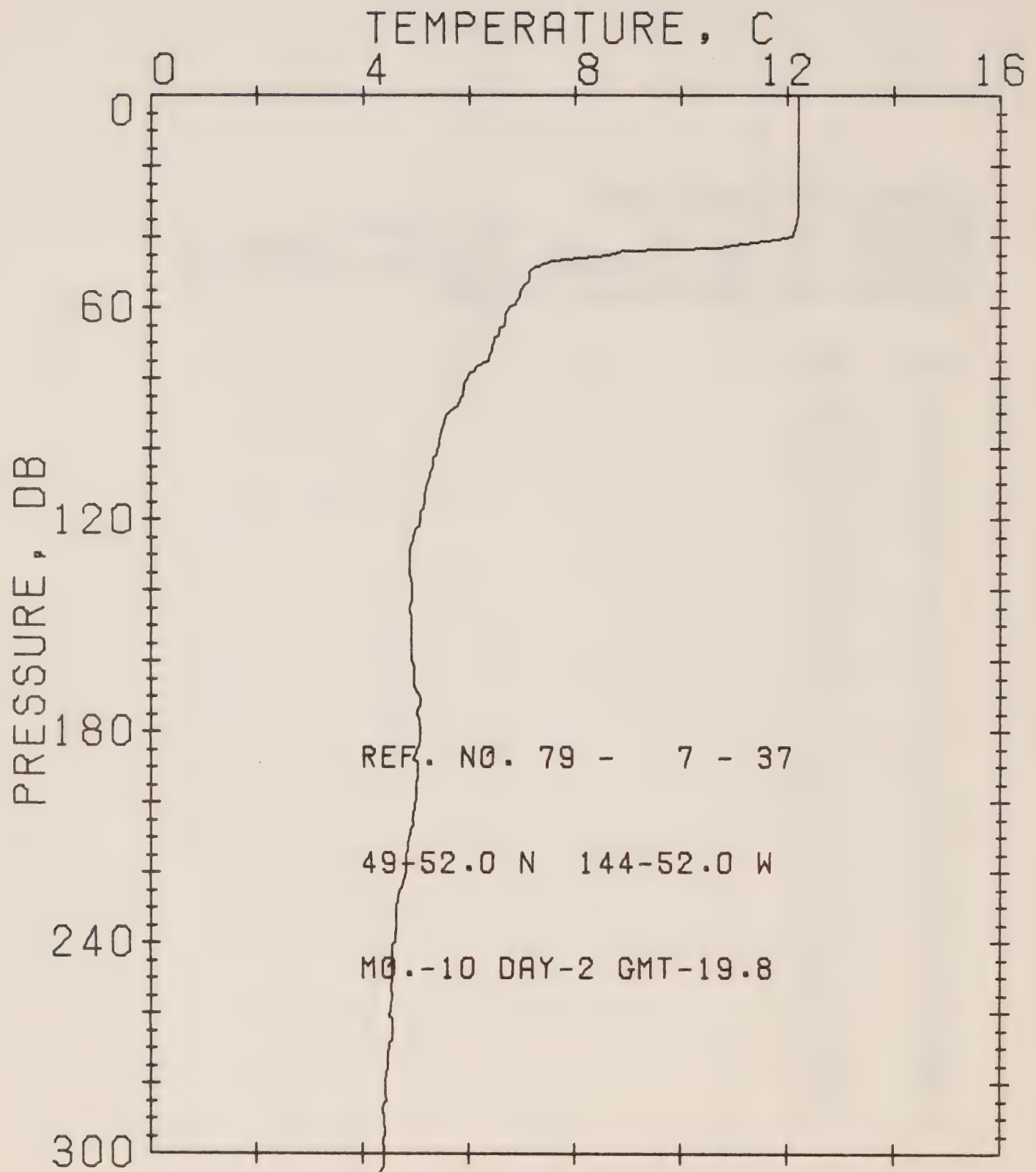
POSITION 50- .0N, 145- .0W GMT 16.5 STATION P

RESULTS OF STP CAST 174 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.56
10	11.53
20	11.51
30	11.51
40	11.47
50	7.14
60	6.57
70	6.17
80	5.87
90	5.45
100	5.08
110	5.00
120	4.92
130	4.75
140	4.61
150	4.56
160	4.70
170	4.72
180	4.79
190	4.79
200	4.75
210	4.69
220	4.53
230	4.43
240	4.39
250	4.27
260	4.19
270	4.00
280	3.94
290	3.90
300	3.85



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 37

DATE 2/10/79

POSITION 49-52.0N, 144-52.0W

GMT 19.8

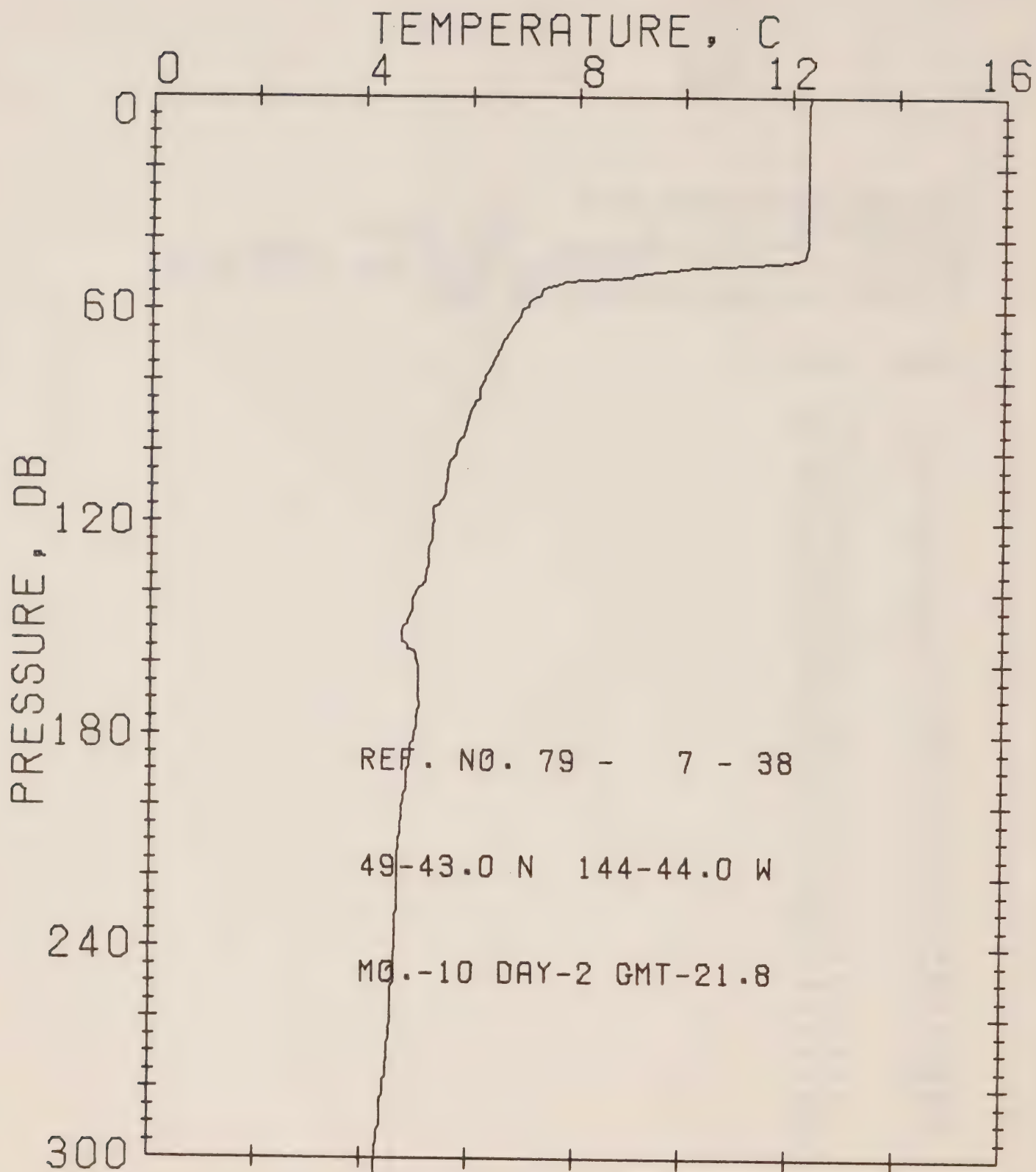
STATION E3

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.22
10	12.22
20	12.22
30	12.22
40	12.11
50	7.15
60	6.78
70	6.46
80	5.97
90	5.62
100	5.42
110	5.22
120	5.09
130	4.89
140	4.93
150	4.91
160	4.92
170	5.08
180	5.09
190	5.04
200	5.00
210	4.88
220	4.82
230	4.65
240	4.60
250	4.56
260	4.53
270	4.50
280	4.43
290	4.39
300	4.41



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 38

DATE 2/10/79

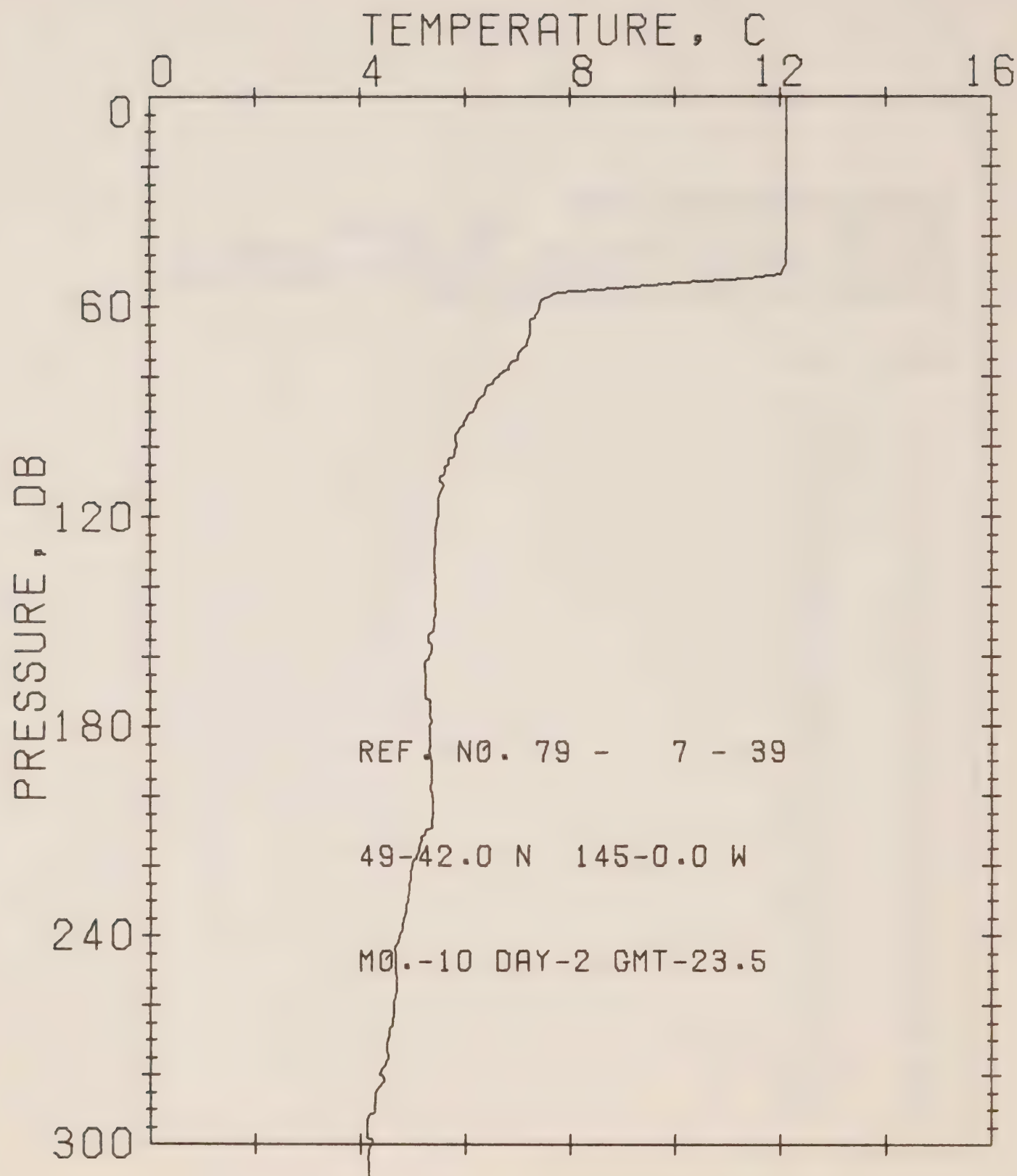
POSITION 49-43.0N, 144-44.0W GMT 21.8 STATION E4

RESULTS OF STP CAST 155 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.34
10	12.33
20	12.33
30	12.32
40	12.31
50	9.10
60	6.97
70	6.60
80	6.26
90	5.98
100	5.72
110	5.55
120	5.34
130	5.23
140	5.02
150	4.75
160	5.00
170	5.05
180	4.98
190	4.86
200	4.76
210	4.70
220	4.68
230	4.65
240	4.64
250	4.60
260	4.56
270	4.50
280	4.43
290	4.38
300	4.29



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 38

DATE 2/10/79

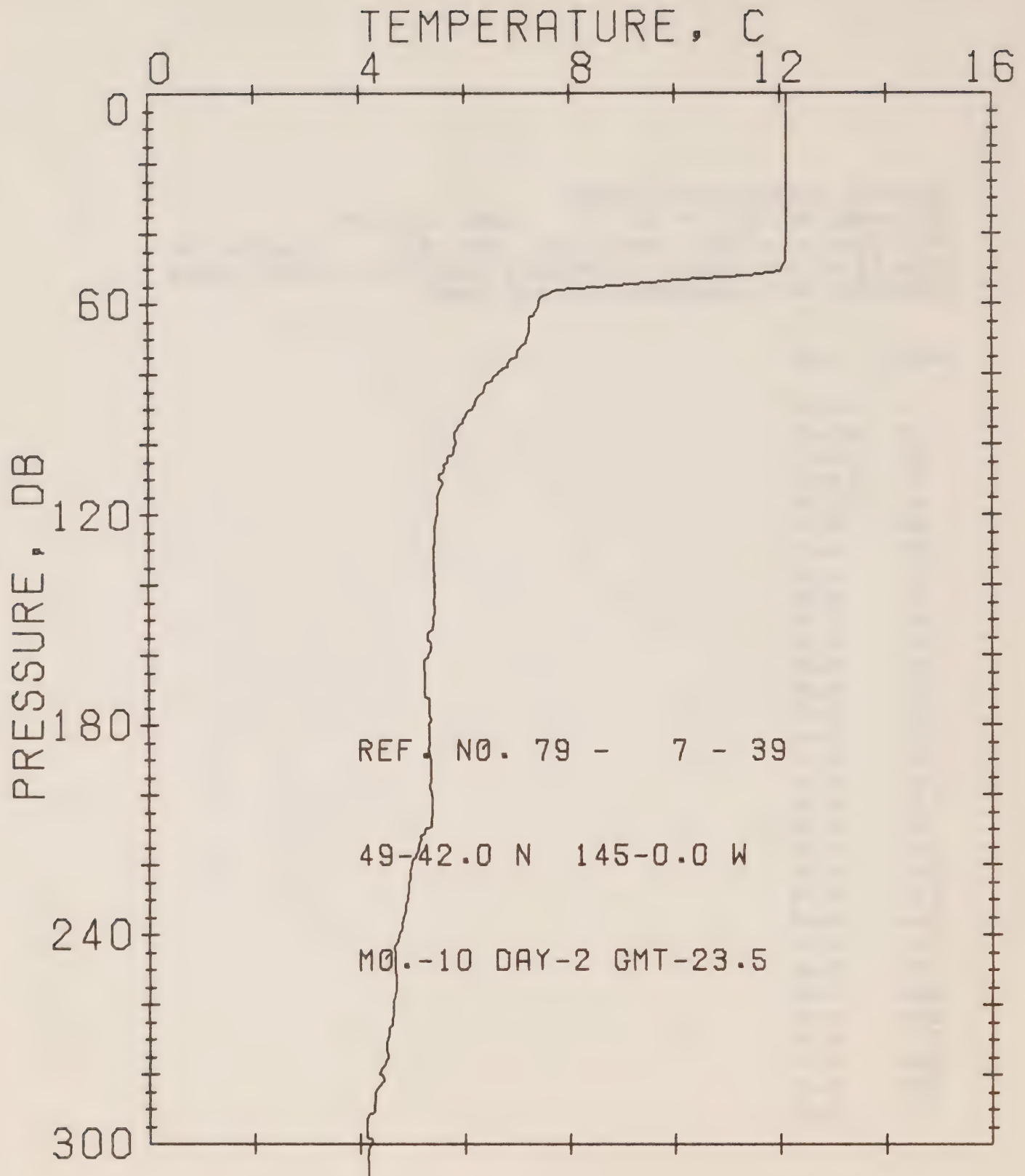
POSITION 49-43.0N, 144-44.0W GMT 21.8 STATION E4

RESULTS OF STP CAST 155 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.34
10	12.33
20	12.33
30	12.32
40	12.31
50	9.10
60	6.97
70	6.60
80	6.26
90	5.98
100	5.72
110	5.55
120	5.34
130	5.23
140	5.02
150	4.75
160	5.00
170	5.05
180	4.98
190	4.86
200	4.76
210	4.70
220	4.68
230	4.65
240	4.64
250	4.60
260	4.56
270	4.50
280	4.43
290	4.38
300	4.29



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 39

DATE 2/10/79

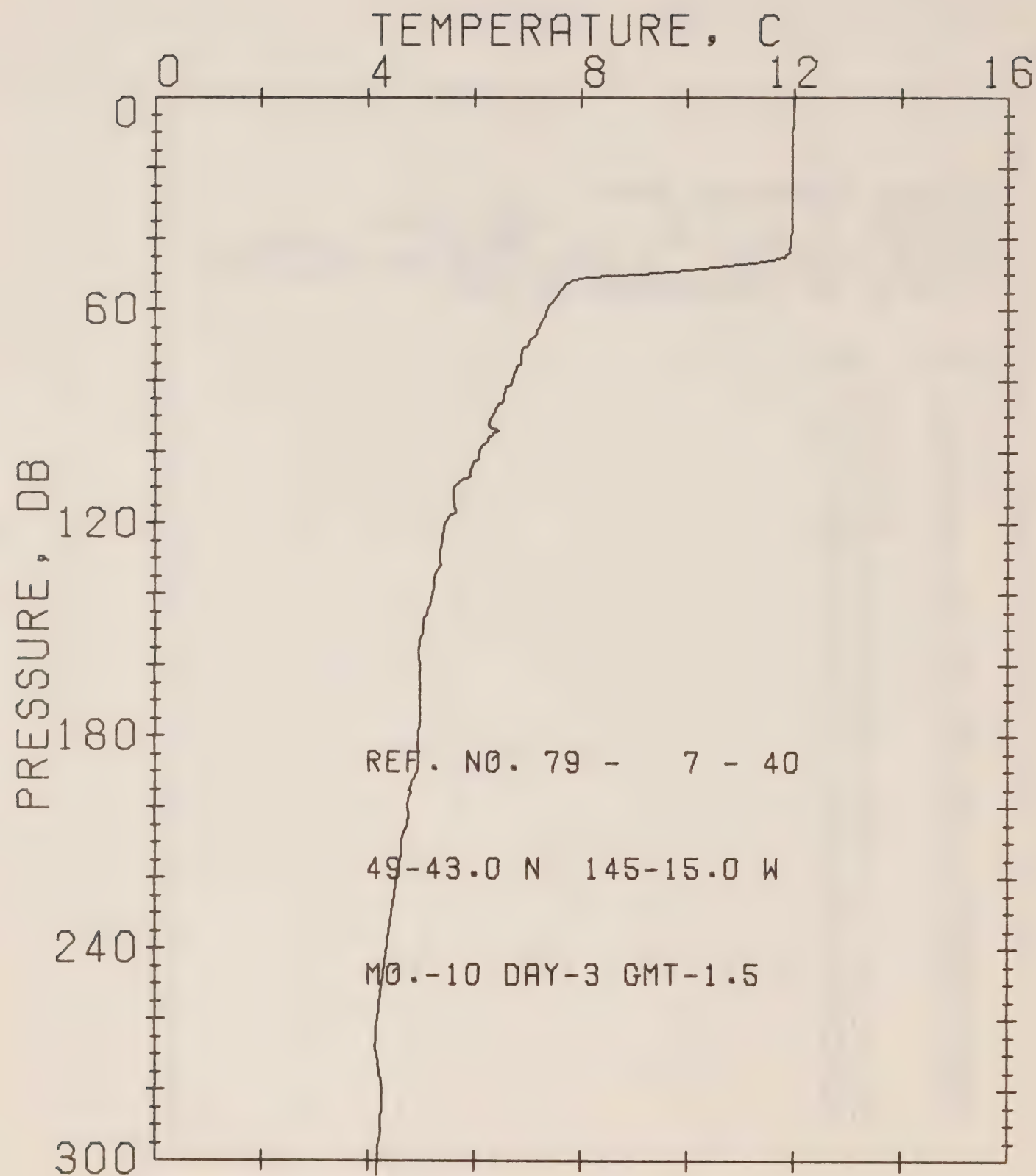
POSITION 49-42.0N, 145- .0W GMT 23.5 STATION C1

RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.14
10	12.13
20	12.14
30	12.14
40	12.14
50	12.05
60	7.43
70	7.20
80	6.64
90	6.17
100	5.84
110	5.53
120	5.47
130	5.42
140	5.43
150	5.42
160	5.34
170	5.24
180	5.32
190	5.34
200	5.35
210	5.26
220	4.99
230	4.91
240	4.75
250	4.68
260	4.64
270	4.54
280	4.37
290	4.27
300	4.22



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 40

DATE 3/10/79

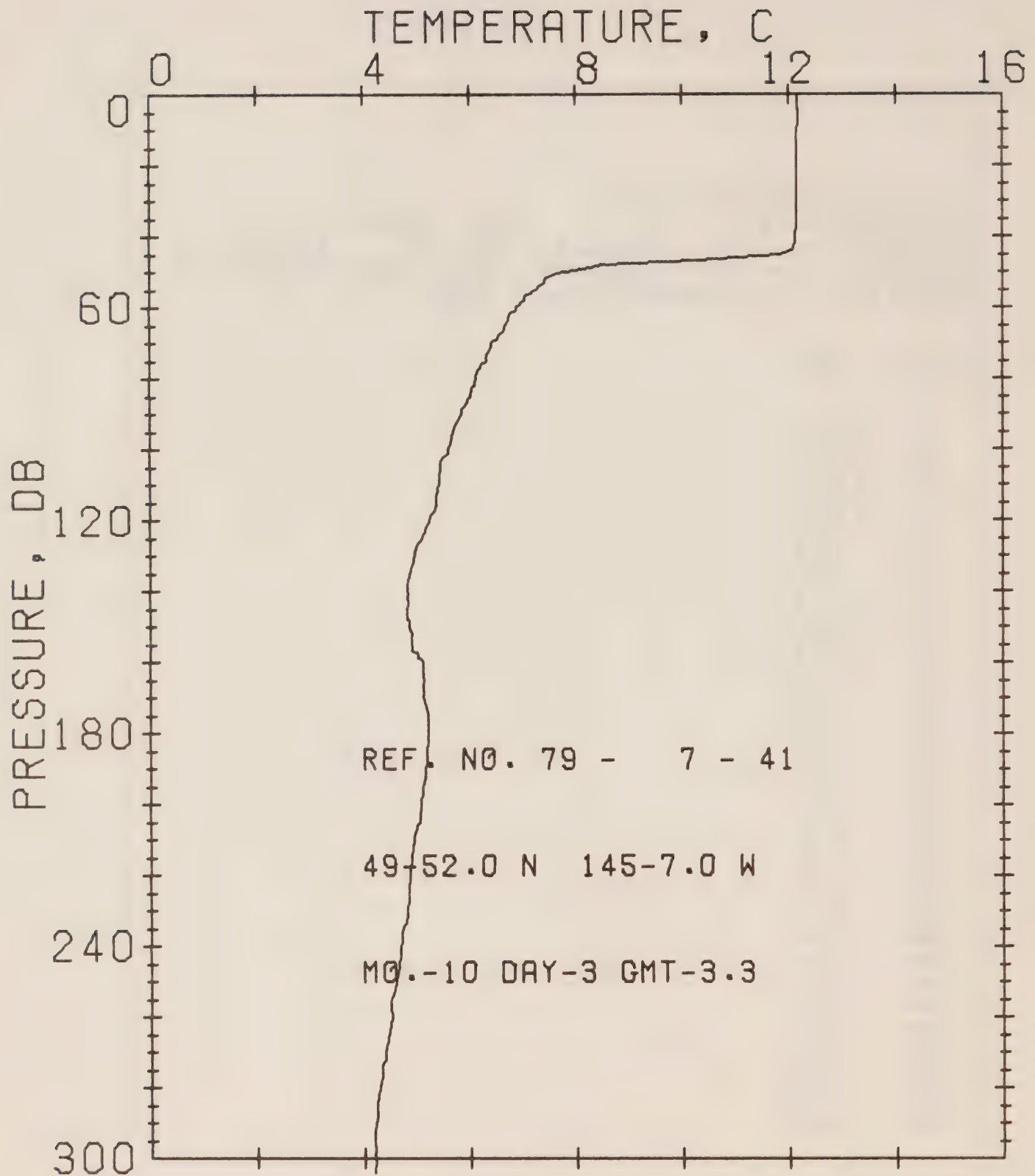
POSITION 49-43.0N, 145-15.0W GMT 1.5 STATION W4

RESULTS OF STP CAST 147 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.00
10	11.98
20	11.98
30	11.97
40	11.96
50	9.16
60	7.37
70	7.00
80	6.71
90	6.36
100	6.12
110	5.62
120	5.48
130	5.36
140	5.23
150	5.05
160	4.98
170	4.99
180	4.96
190	4.94
200	4.76
210	4.65
220	4.55
230	4.46
240	4.36
250	4.27
260	4.20
270	4.15
280	4.27
290	4.25
300	4.20



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 41

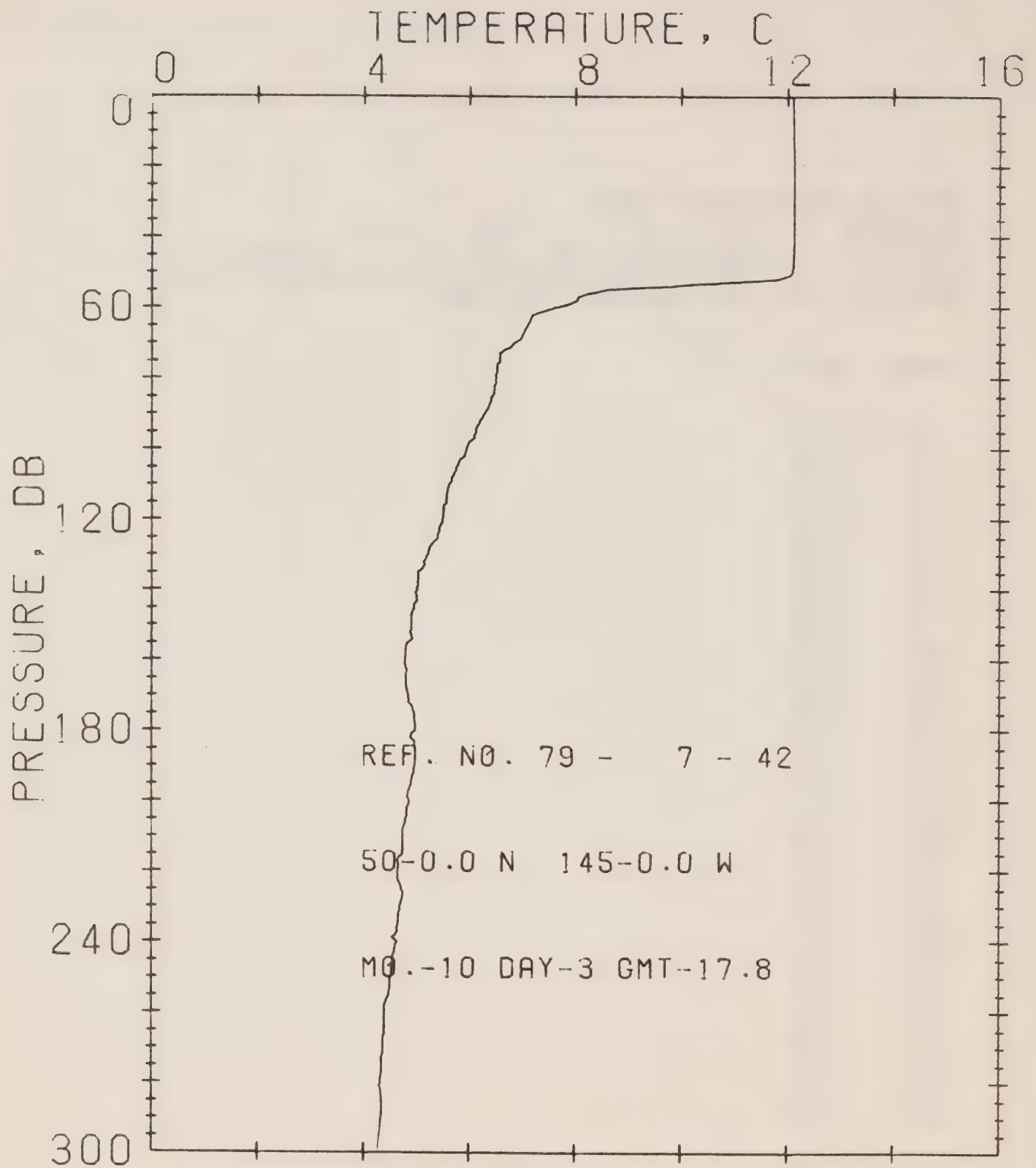
DATE 3/10/79

POSITION 49-52.0N, 145- 7.0W GMT 3.3 STATION W3

RESULTS OF STP CAST 152 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	12.16
10	12.17
20	12.16
30	12.16
40	12.14
50	7.82
60	6.89
70	6.43
80	6.13
90	5.86
100	5.59
110	5.42
120	5.26
130	4.98
140	4.84
150	4.86
160	5.11
170	5.13
180	5.22
190	5.18
200	5.09
210	4.96
220	4.89
230	4.84
240	4.71
250	4.62
260	4.53
270	4.40
280	4.31
290	4.23
300	4.20



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 42

DATE 3/10/79

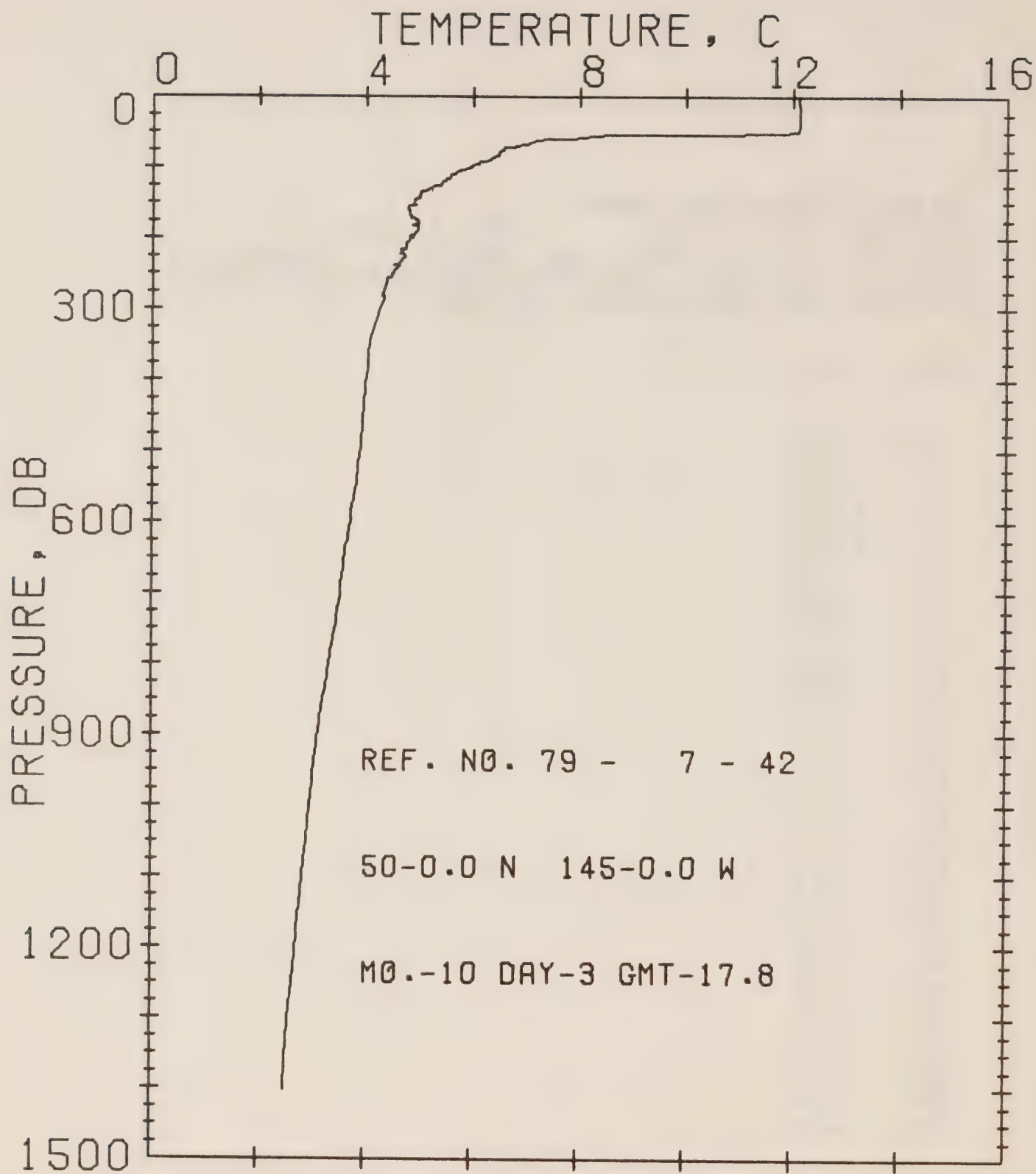
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 187 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.11
10	12.11
20	12.12
30	12.12
40	12.12
50	12.11
60	7.64
70	6.85
80	6.50
90	6.30
100	5.96
110	5.64
120	5.50
130	5.22
140	5.02
150	4.91
160	4.79
170	4.84
180	4.99
190	4.98
200	4.87
210	4.75
220	4.65
230	4.69
240	4.63
250	4.50
260	4.39
270	4.38
280	4.32
290	4.34
300	4.28



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 42

DATE 3/10/79

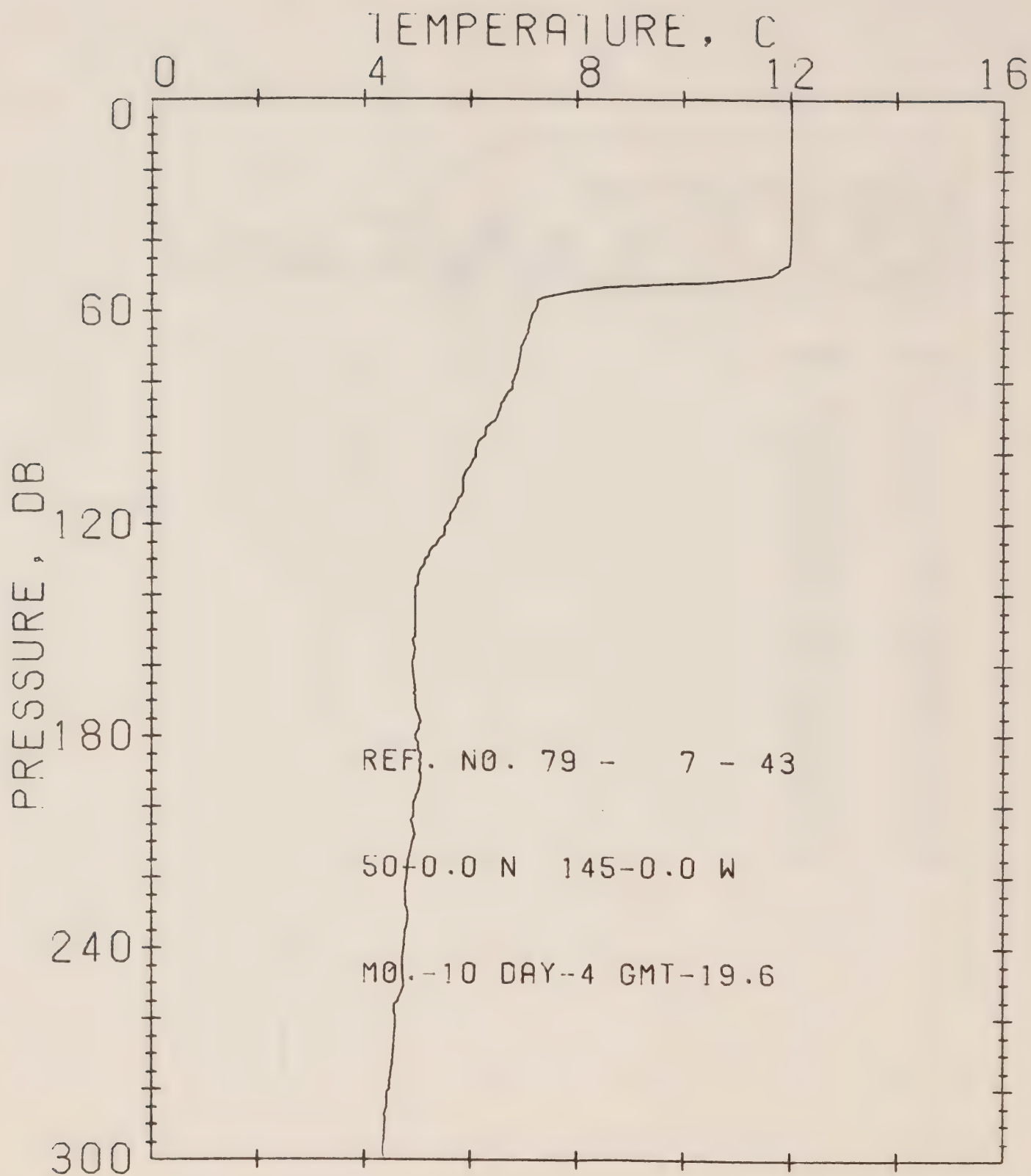
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 271 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.11
10	12.11
20	12.12
30	12.12
50	12.11
75	6.58
100	5.96
125	5.41
150	4.91
175	4.97
200	4.87
225	4.73
250	4.50
300	4.28
400	4.02
500	3.92
600	3.72
800	3.34
1000	2.99
1200	2.72



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 43

DATE 4/10/79

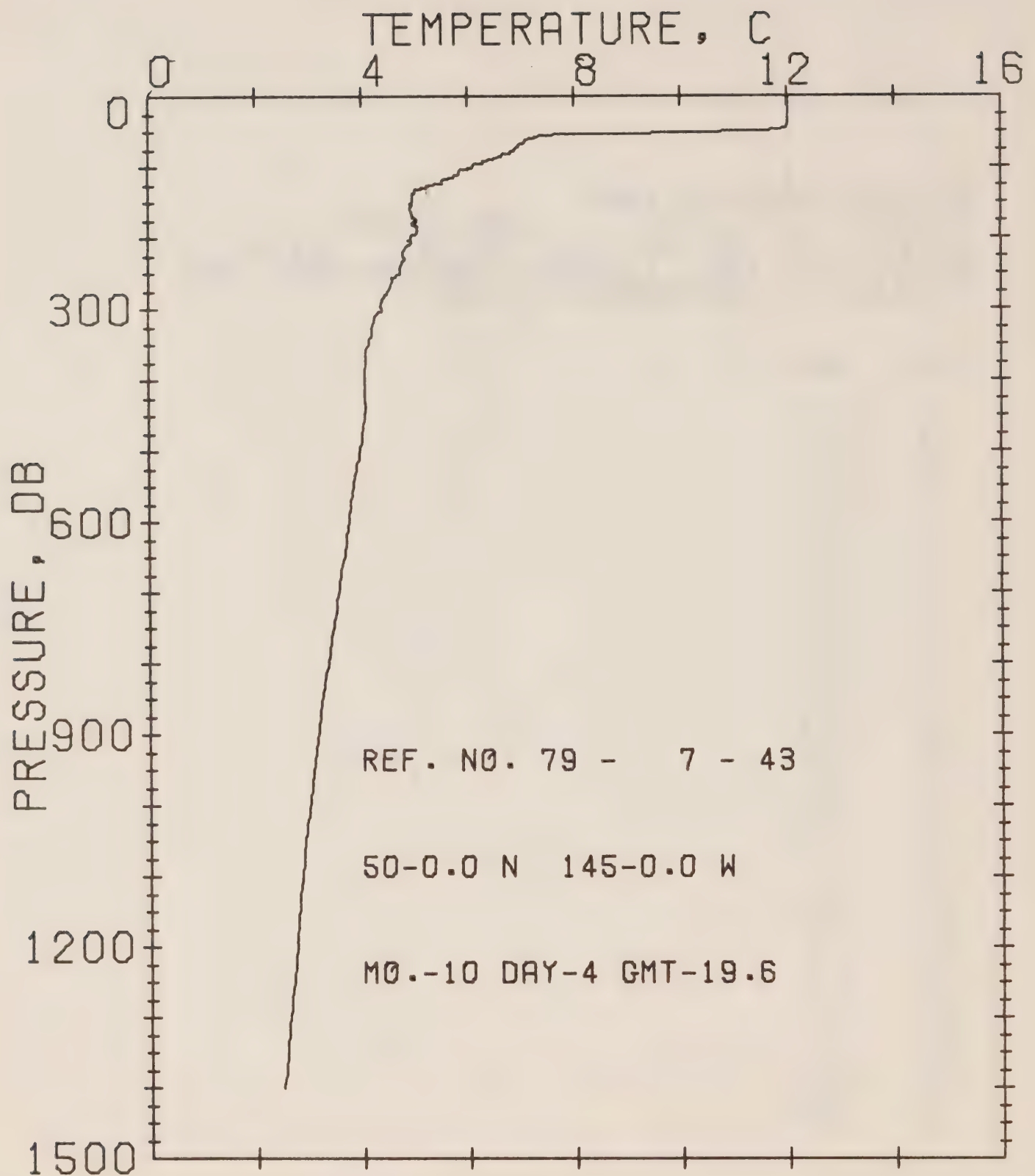
POSITION 50- .0N, 145- .0W GMT 19.6 STATION P

RESULTS OF STP CAST 164 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.02
10	12.02
20	12.02
30	12.02
40	12.02
50	11.68
60	7.22
70	6.97
80	6.81
90	6.50
100	6.11
110	5.87
120	5.57
130	5.15
140	4.97
150	4.97
160	4.92
170	4.95
180	4.95
190	5.04
200	4.94
210	4.92
220	4.79
230	4.82
240	4.75
250	4.74
260	4.59
270	4.55
280	4.48
290	4.39
300	4.37



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 43

DATE 4/10/79

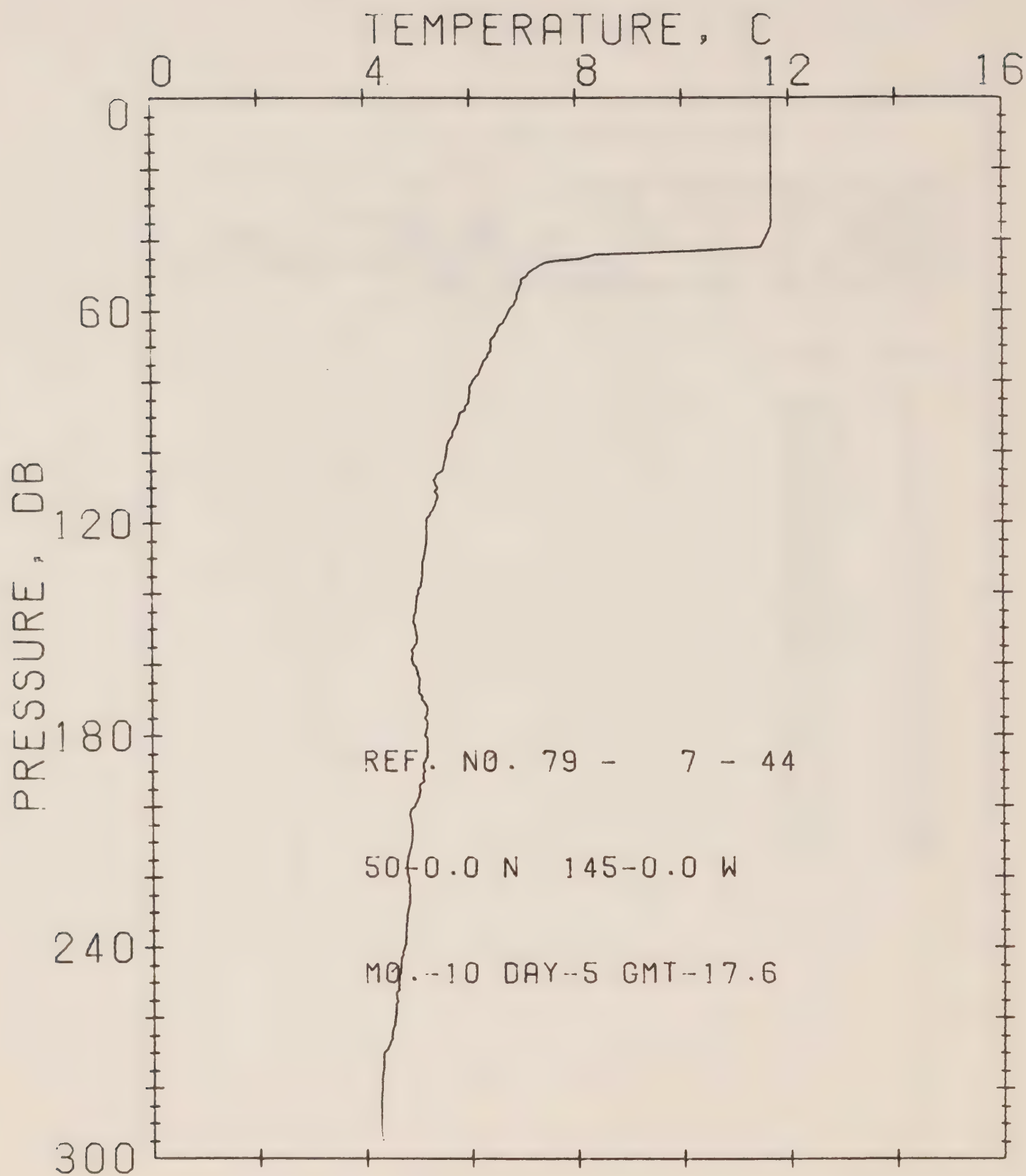
POSITION 50- .0N, 145- .0W GMT 19.6 STATION P

RESULTS OF STP CAST 274 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.02
10	12.02
20	12.02
30	12.02
50	11.68
75	6.92
100	6.11
125	5.41
150	4.97
175	5.03
200	4.94
225	4.77
250	4.74
300	4.37
400	4.04
500	3.97
600	3.75
800	3.37
1000	2.99
1200	2.74



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 44

DATE 5/10/79

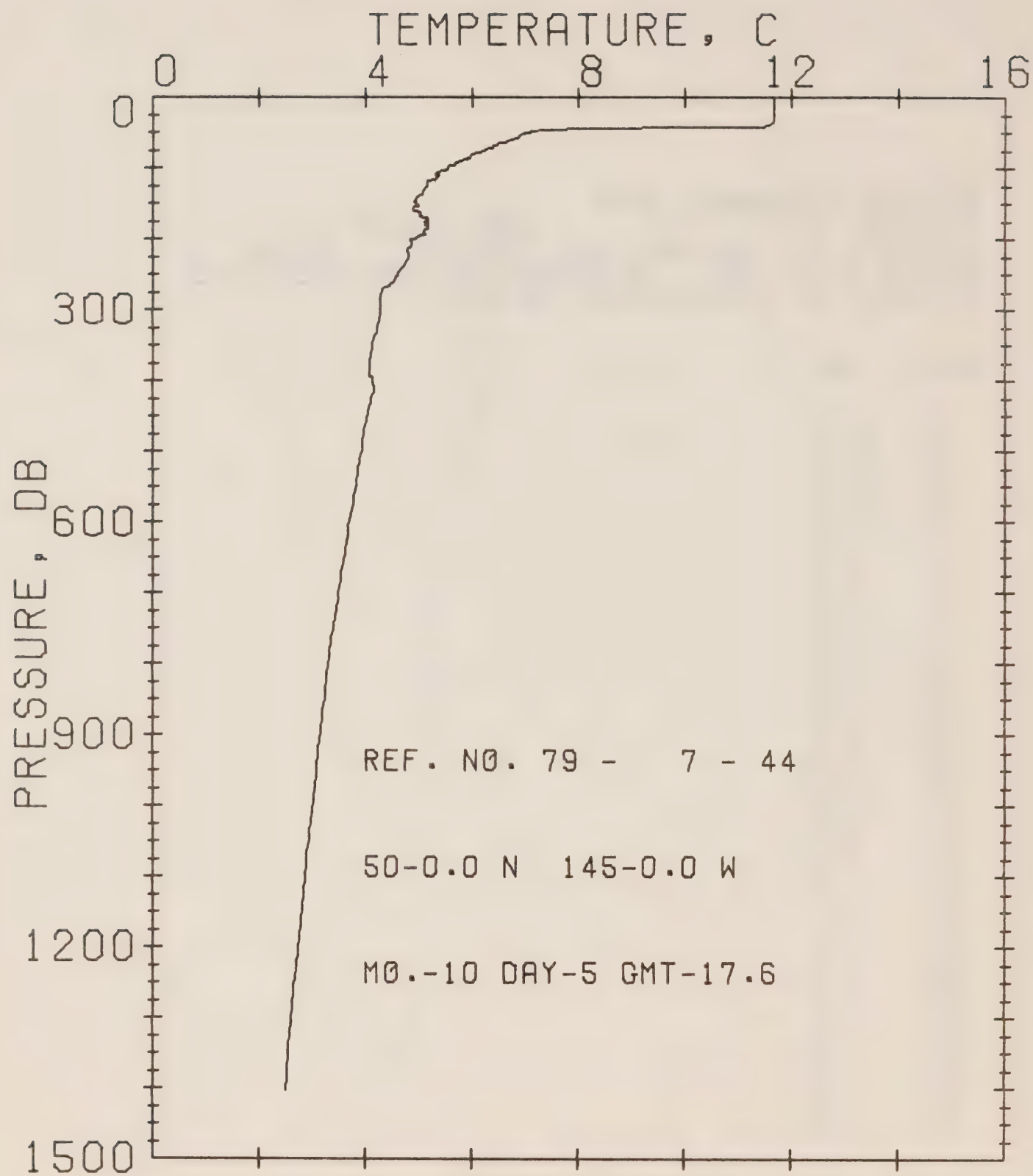
POSITION 50- .0N, 145- .0W GMT 17.6 STATION P

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.68
10	11.68
20	11.68
30	11.68
40	11.56
50	7.09
60	6.76
70	6.40
80	6.05
90	5.79
100	5.56
110	5.40
120	5.18
130	5.13
140	5.01
150	4.94
160	4.90
170	5.08
180	5.13
190	5.11
200	4.94
210	4.87
220	4.79
230	4.79
240	4.72
250	4.61
260	4.55
270	4.33
280	4.29
290	4.28
300	4.28



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 44

DATE 5/10/79

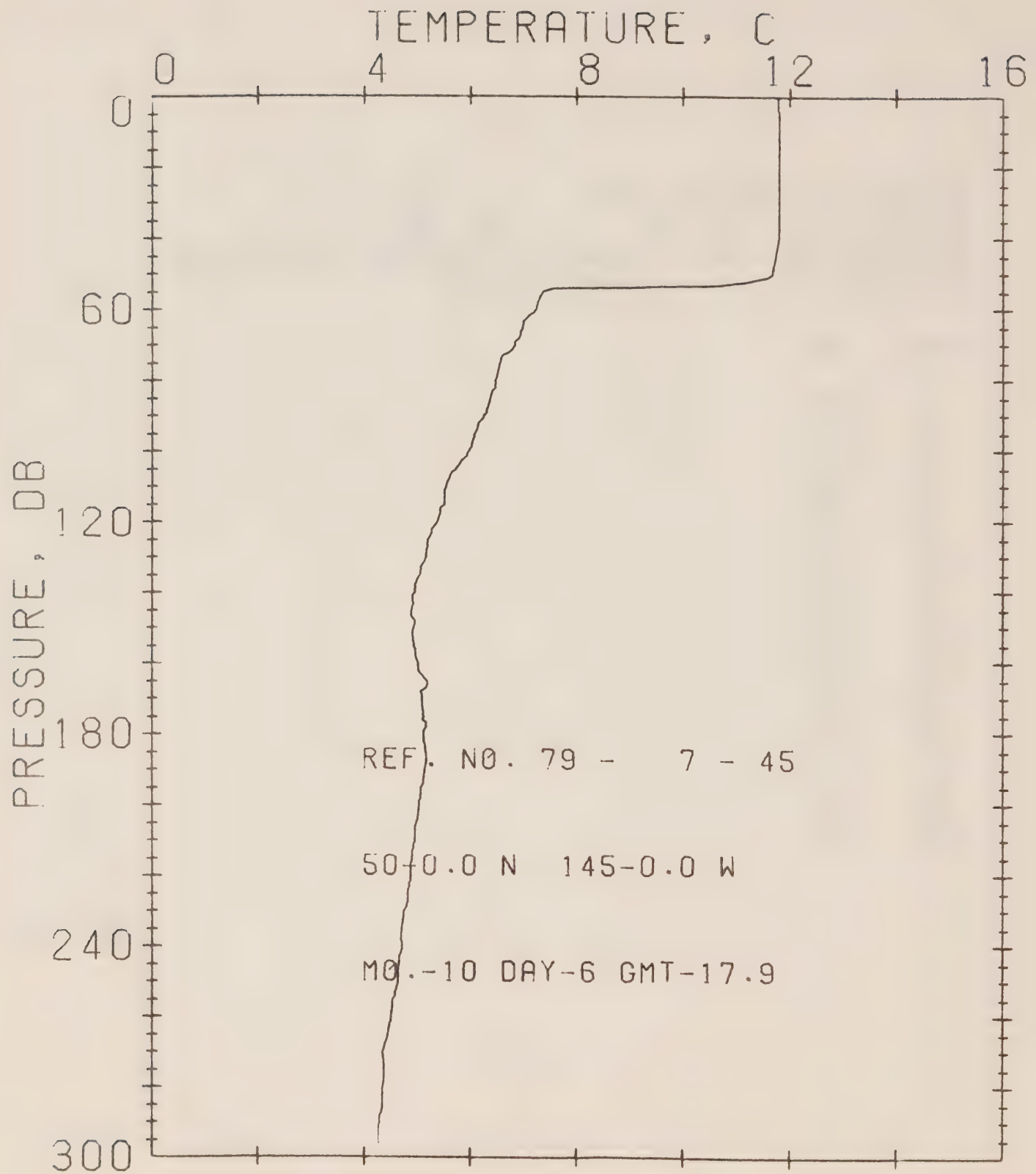
POSITION 50- .0N, 145- ,0W GMT 17.6 STATION P

RESULTS OF STP CAST 296 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.68
10	11.68
20	11.68
30	11.68
50	7.09
75	6.23
100	5.56
125	5.18
150	4.94
175	5.13
200	4.94
225	4.83
250	4.61
300	4.28
400	4.13
500	3.94
600	3.71
800	3.32
1000	3.03
1200	2.75



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 45

DATE 6/10/79

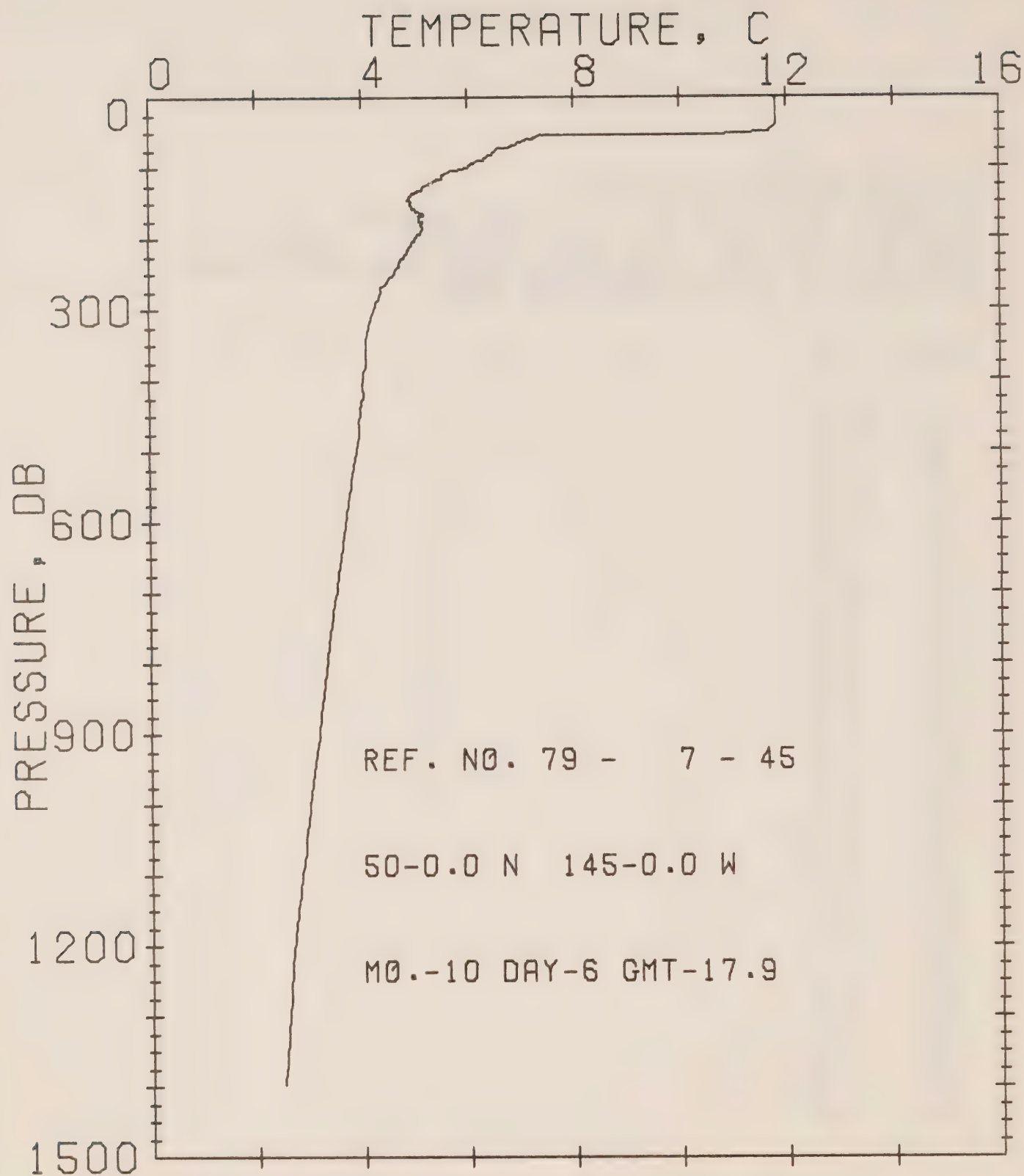
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 169 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.80
10	11.82
20	11.82
30	11.82
40	11.81
50	11.69
60	7.24
70	6.85
80	6.49
90	6.26
100	5.97
110	5.54
120	5.38
130	5.18
140	4.95
150	4.94
160	5.00
170	5.09
180	5.13
190	5.14
200	5.04
210	4.95
220	4.88
230	4.76
240	4.71
250	4.64
260	4.51
270	4.35
280	4.35
290	4.30
300	4.25



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 45

DATE 6/10/79

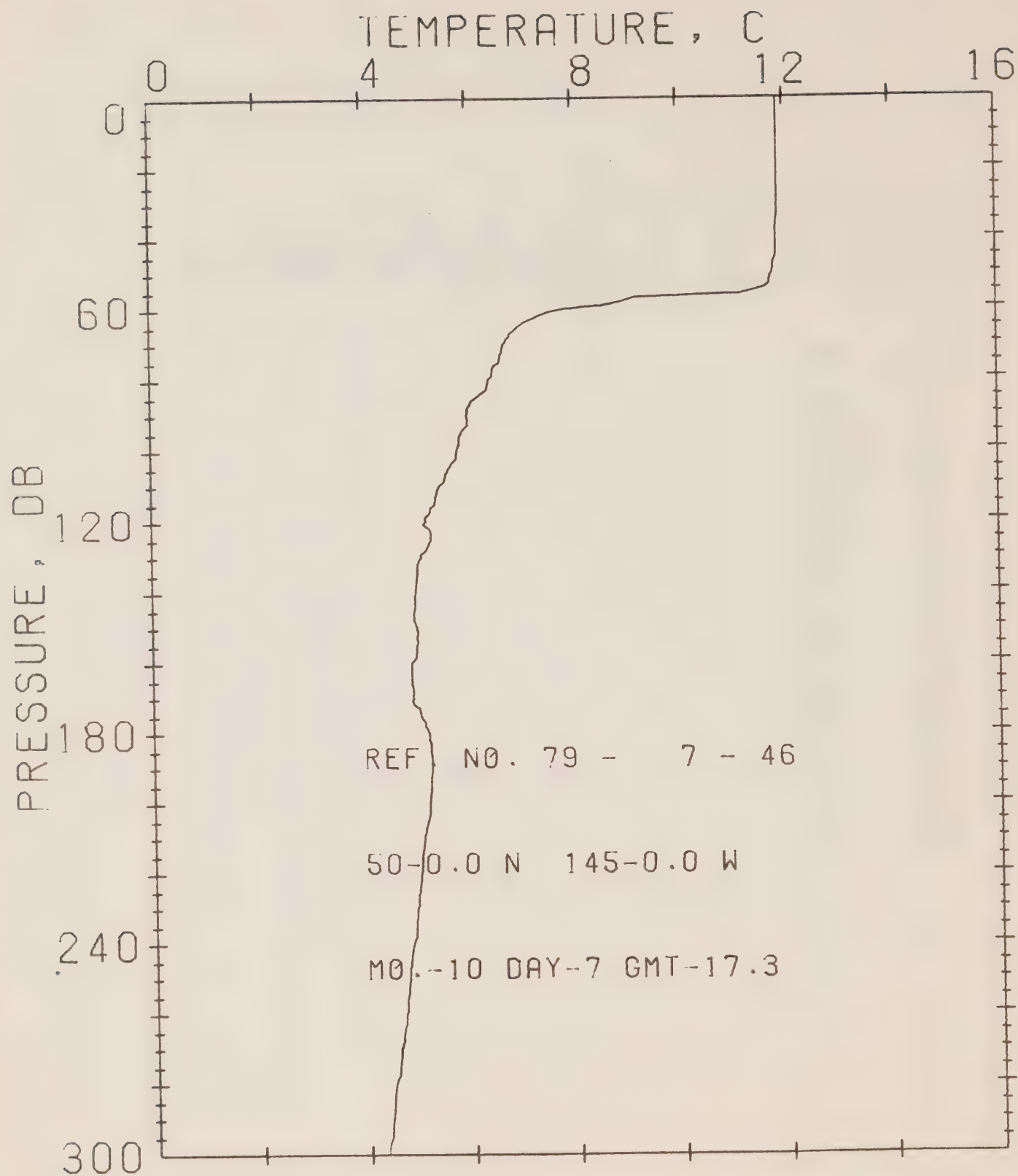
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 270 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.80
10	11.82
20	11.82
30	11.82
50	11.69
75	6.57
100	5.97
125	5.20
150	4.94
175	5.12
200	5.04
225	4.83
250	4.64
300	4.25
400	4.02
500	3.90
600	3.70
800	3.33
1000	3.00
1200	2.68



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 46

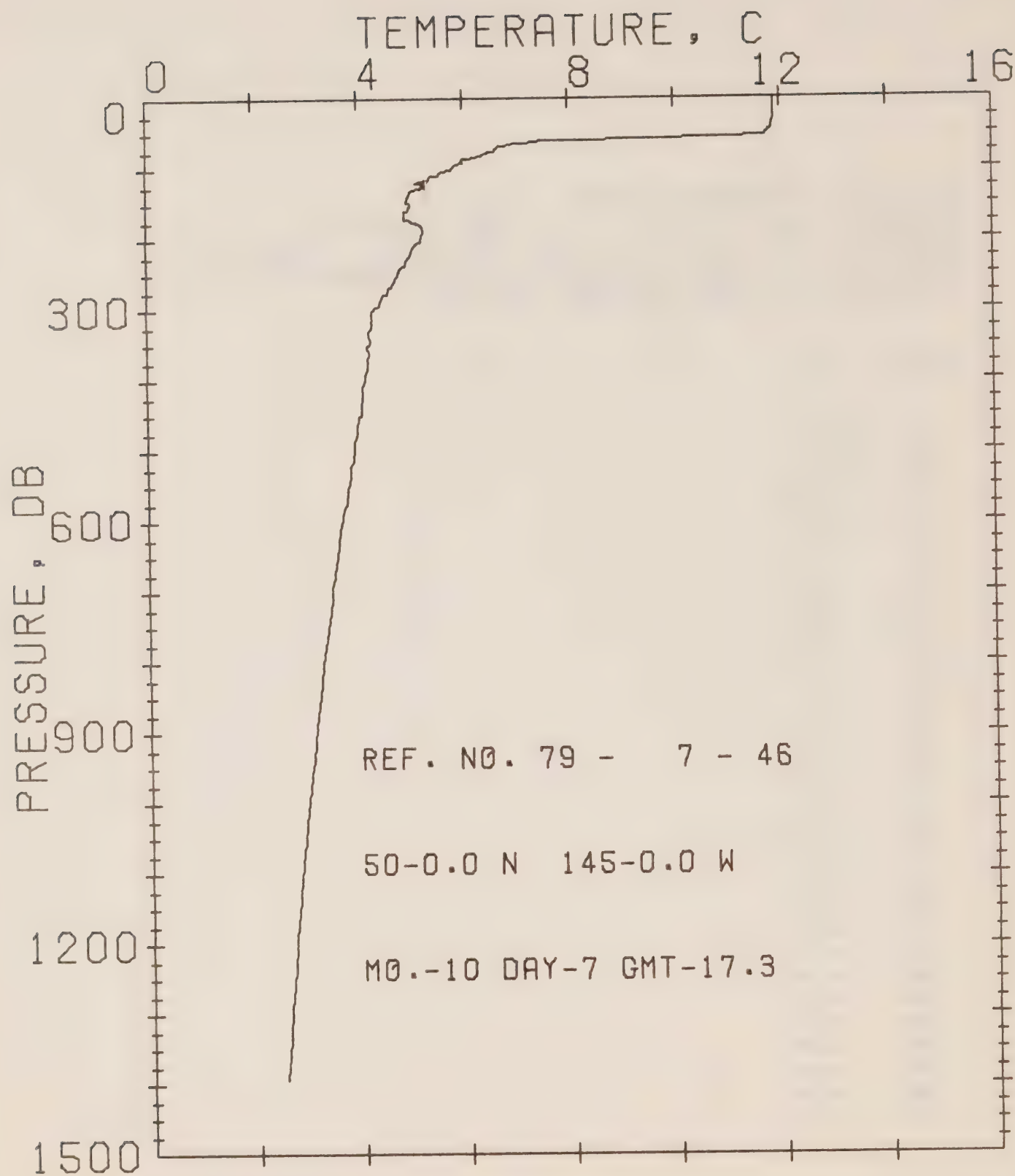
DATE 7/10/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.90
10	11.90
20	11.90
30	11.89
40	11.88
50	11.78
60	7.86
70	6.69
80	6.41
90	5.98
100	5.78
110	5.45
120	5.16
130	5.09
140	4.97
150	4.98
160	4.88
170	4.90
180	5.19
190	5.24
200	5.21
210	5.08
220	5.02
230	4.93
240	4.86
250	4.77
260	4.70
270	4.59
280	4.49
290	4.43
300	4.31



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 46

DATE 7/10/79

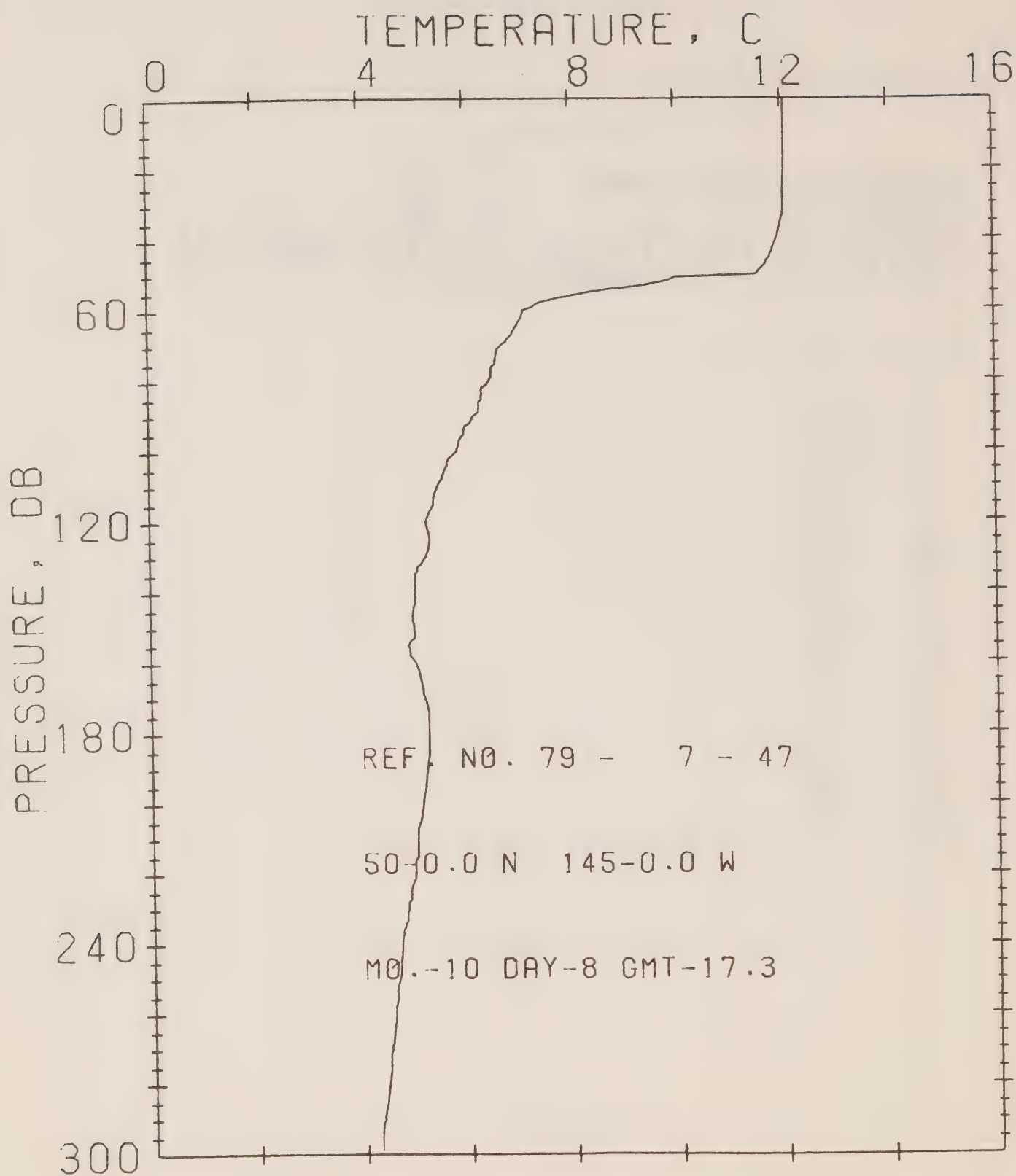
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 277 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.90
10	11.90
20	11.90
30	11.89
50	11.78
75	6.62
100	5.78
125	5.29
150	4.98
175	5.05
200	5.21
225	4.99
250	4.77
300	4.31
400	4.14
500	3.92
600	3.67
800	3.29
1000	2.98
1200	2.71



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 47

DATE 8/10/79

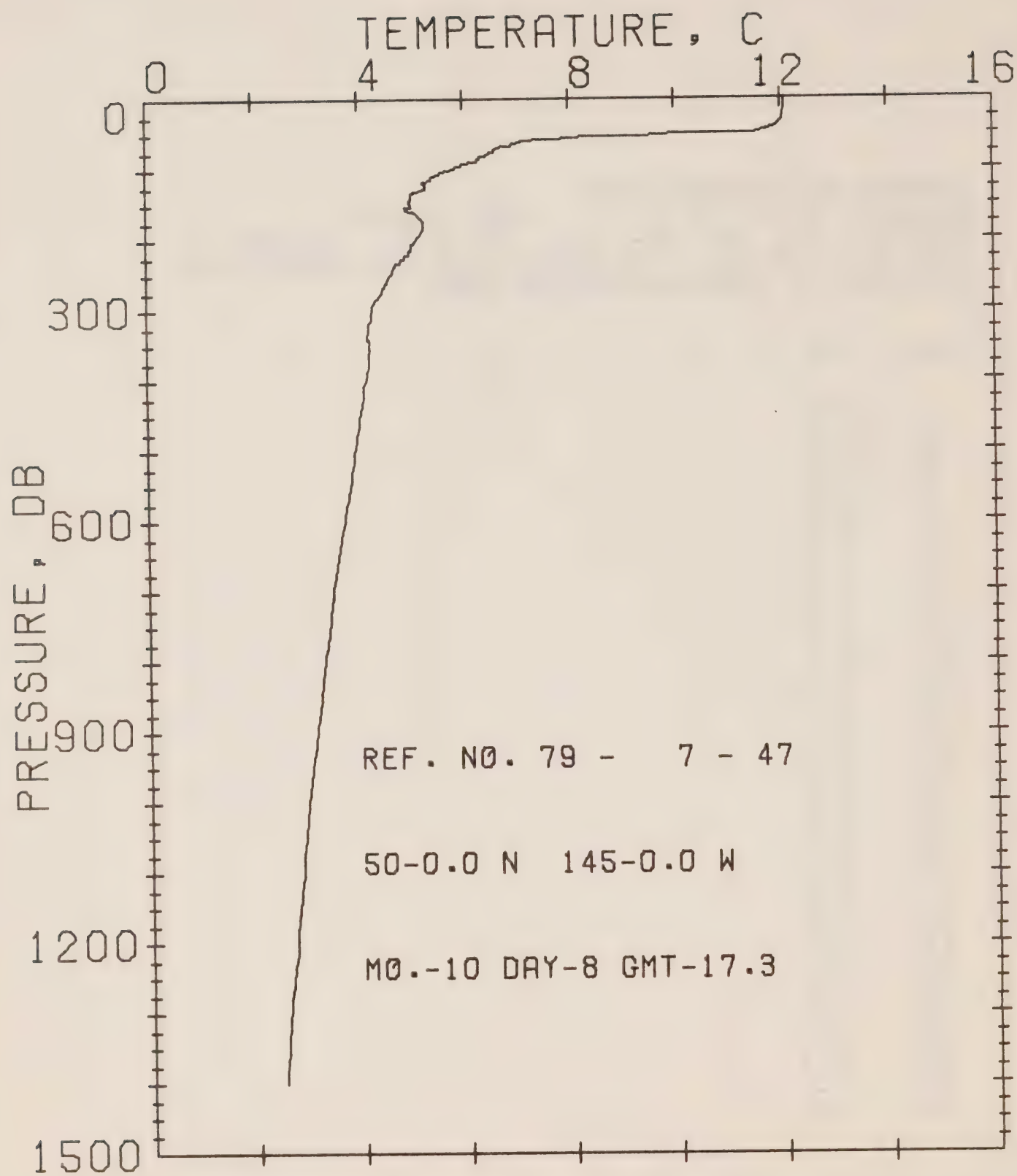
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 173 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.07
10	12.07
20	12.07
30	12.06
40	11.92
50	11.55
60	7.12
70	6.70
80	6.46
90	6.16
100	5.84
110	5.46
120	5.23
130	5.22
140	5.01
150	4.99
160	5.02
170	5.17
180	5.24
190	5.21
200	5.12
210	5.01
220	4.95
230	4.84
240	4.69
250	4.64
260	4.56
270	4.47
280	4.43
290	4.31
300	4.27



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 47

DATE 8/10/79

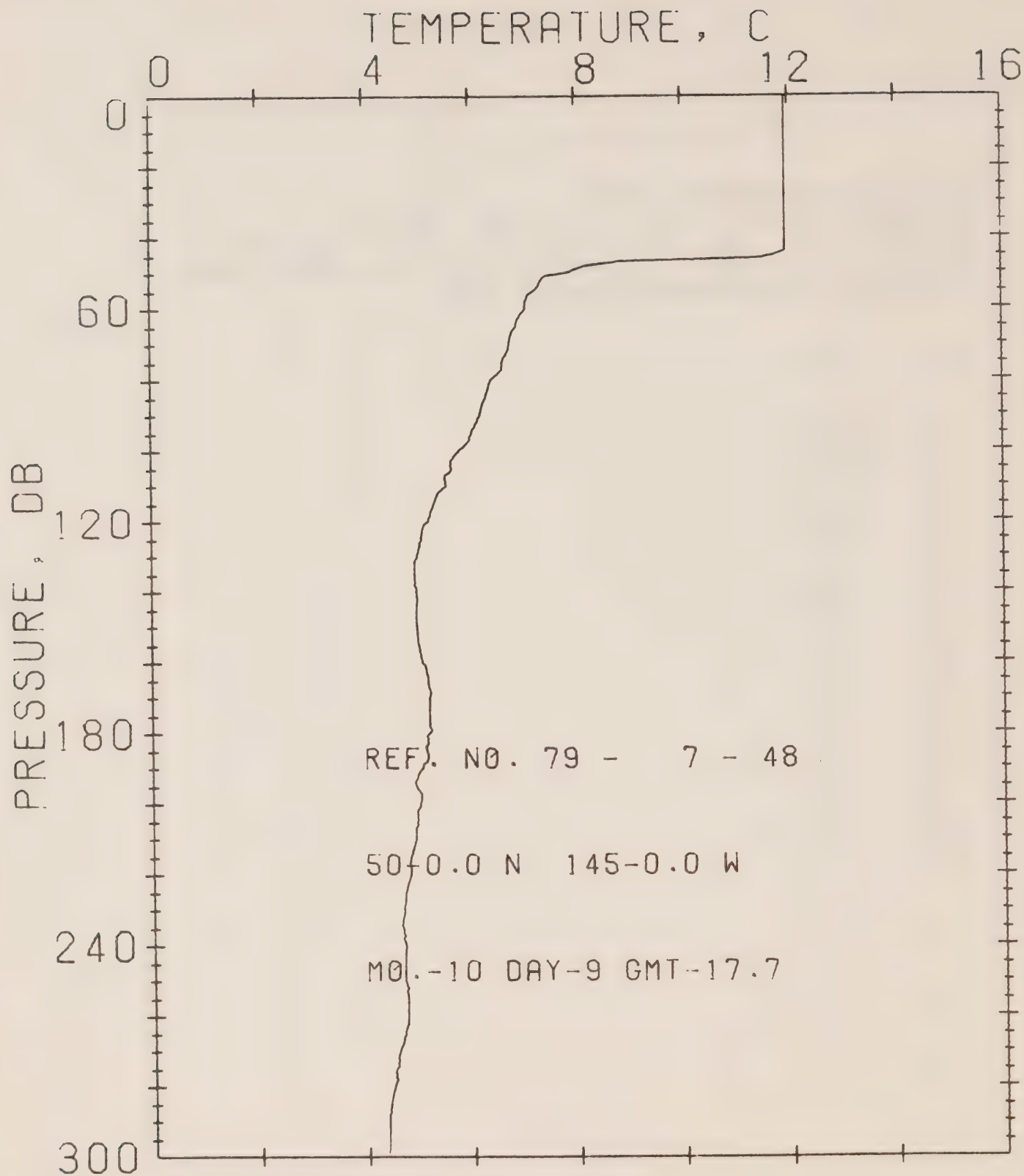
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 278 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

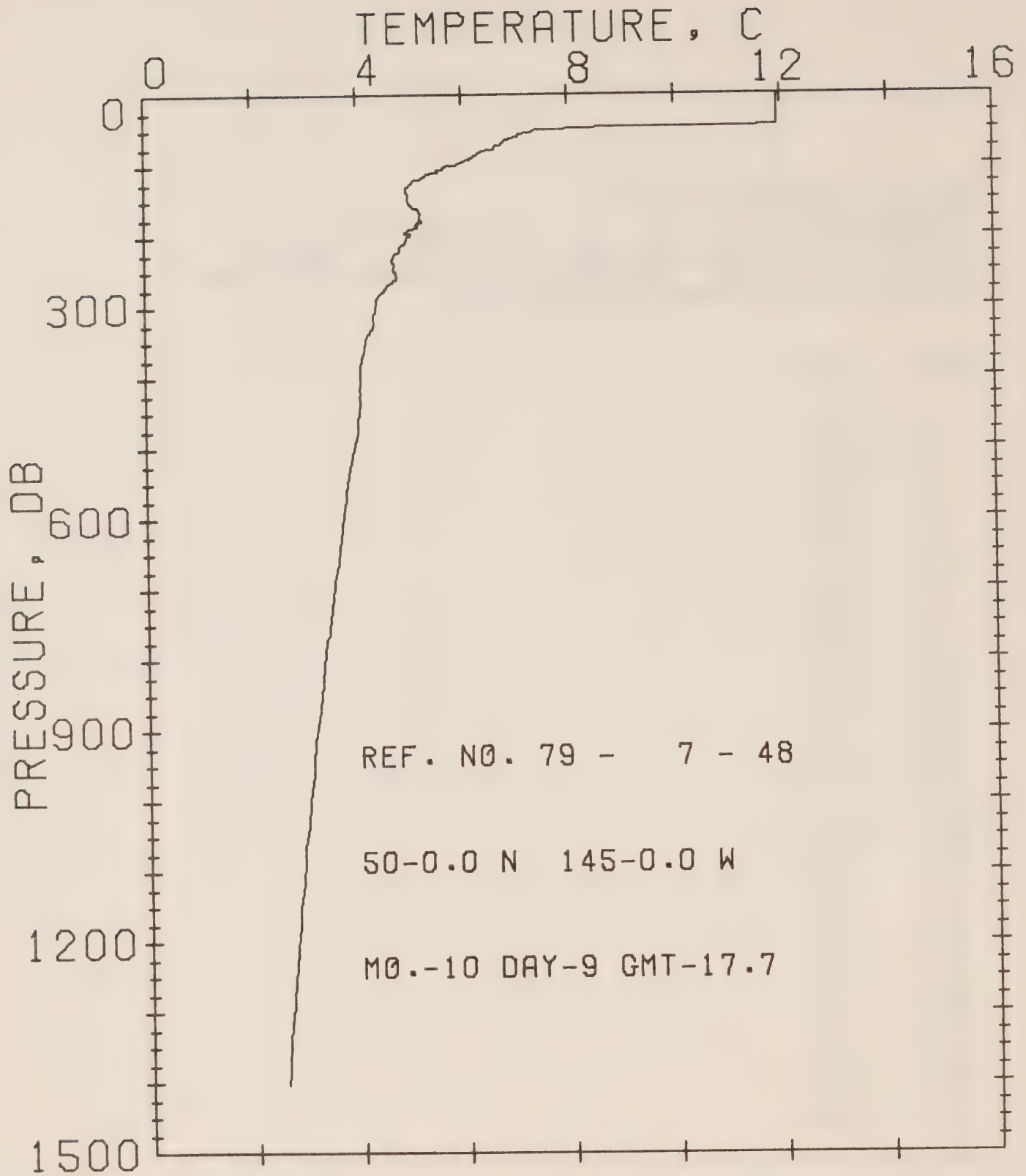
0	12.07
10	12.07
20	12.07
30	12.06
50	11.55
75	6.58
100	5.84
125	5.31
150	4.99
175	5.24
200	5.12
225	4.89
250	4.64
300	4.27
400	4.13
500	3.91
600	3.70
800	3.31
1000	2.97
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 48 DATE 9/10/79
POSITION 50- .0N, 145- .0W GMT 17.7 STATION P
RESULTS OF STP CAST 184 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	11.95
10	11.95
20	11.95
30	11.95
40	11.95
50	7.87
60	7.07
70	6.75
80	6.41
90	6.20
100	5.78
110	5.54
120	5.19
130	4.98
140	4.96
150	4.97
160	5.07
170	5.21
180	5.19
190	5.07
200	5.04
210	4.93
220	4.83
230	4.69
240	4.71
250	4.69
260	4.75
270	4.59
280	4.48
290	4.38
300	4.35



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 48

DATE 9/10/79

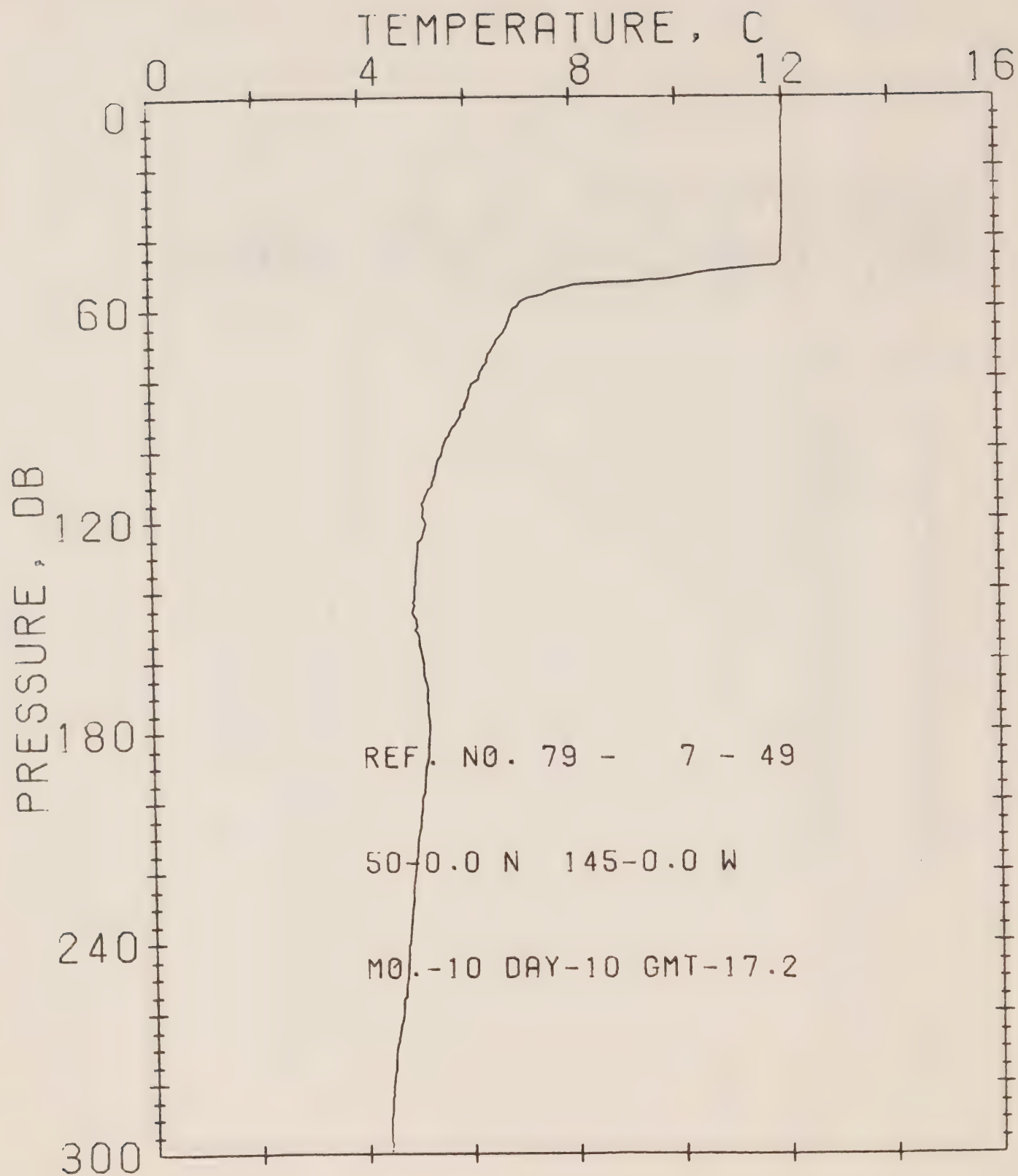
POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 259 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.95
10	11.95
20	11.95
30	11.95
50	7.87
75	6.61
100	5.78
125	5.08
150	4.97
175	5.21
200	5.04
225	4.73
250	4.69
300	4.35
400	4.06
500	3.93
600	3.70
800	3.32
1000	3.02
1200	2.76



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 49

DATE 10/10/79

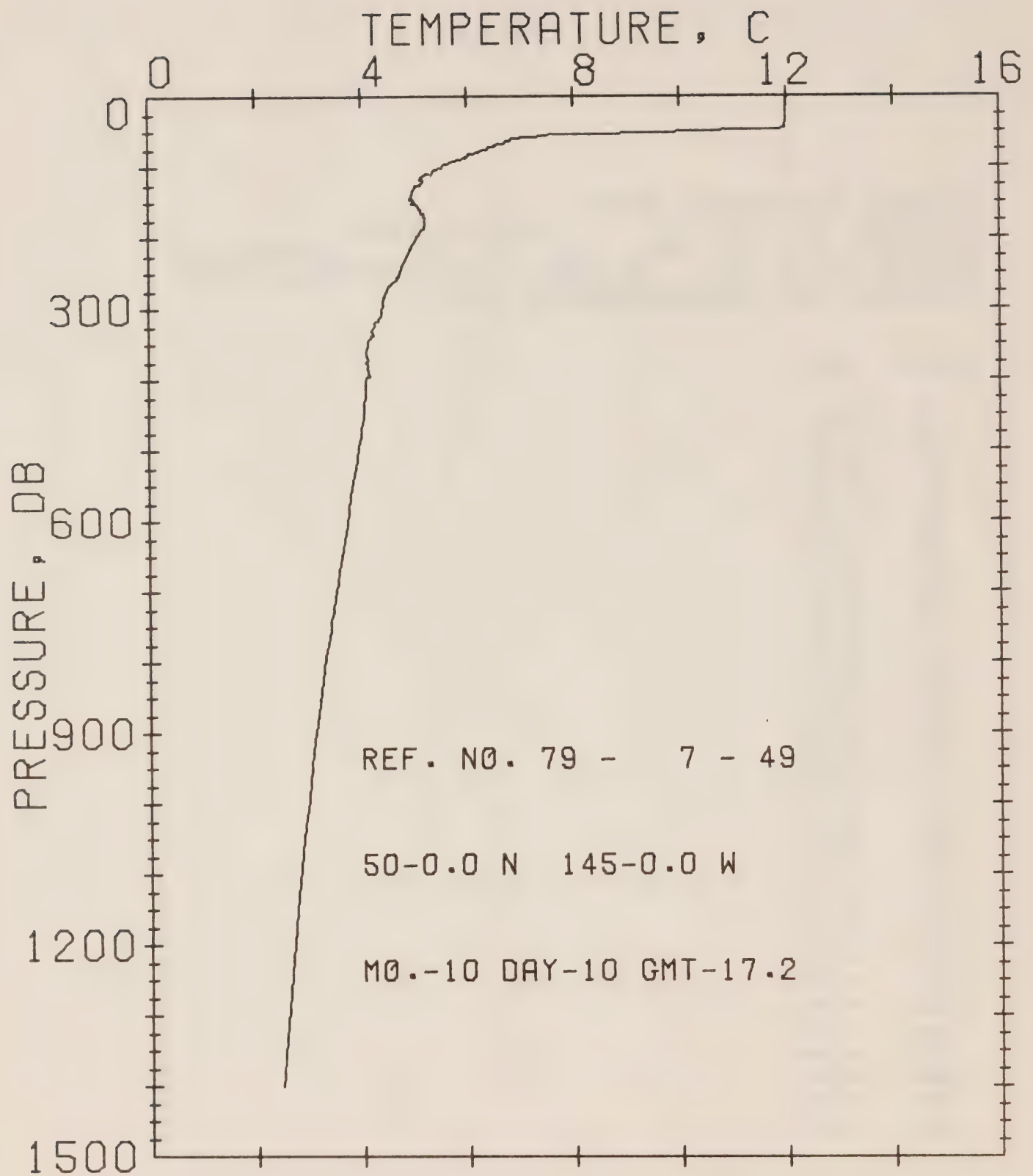
POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 162 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.02
10	12.00
20	12.00
30	12.00
40	11.98
50	10.45
60	6.90
70	6.57
80	6.24
90	5.89
100	5.53
110	5.33
120	5.17
130	5.01
140	4.96
150	5.01
160	5.10
170	5.19
180	5.22
190	5.15
200	5.06
210	4.98
220	4.92
230	4.86
240	4.79
250	4.76
260	4.66
270	4.54
280	4.46
290	4.41
300	4.41



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 49

DATE 10/10/79

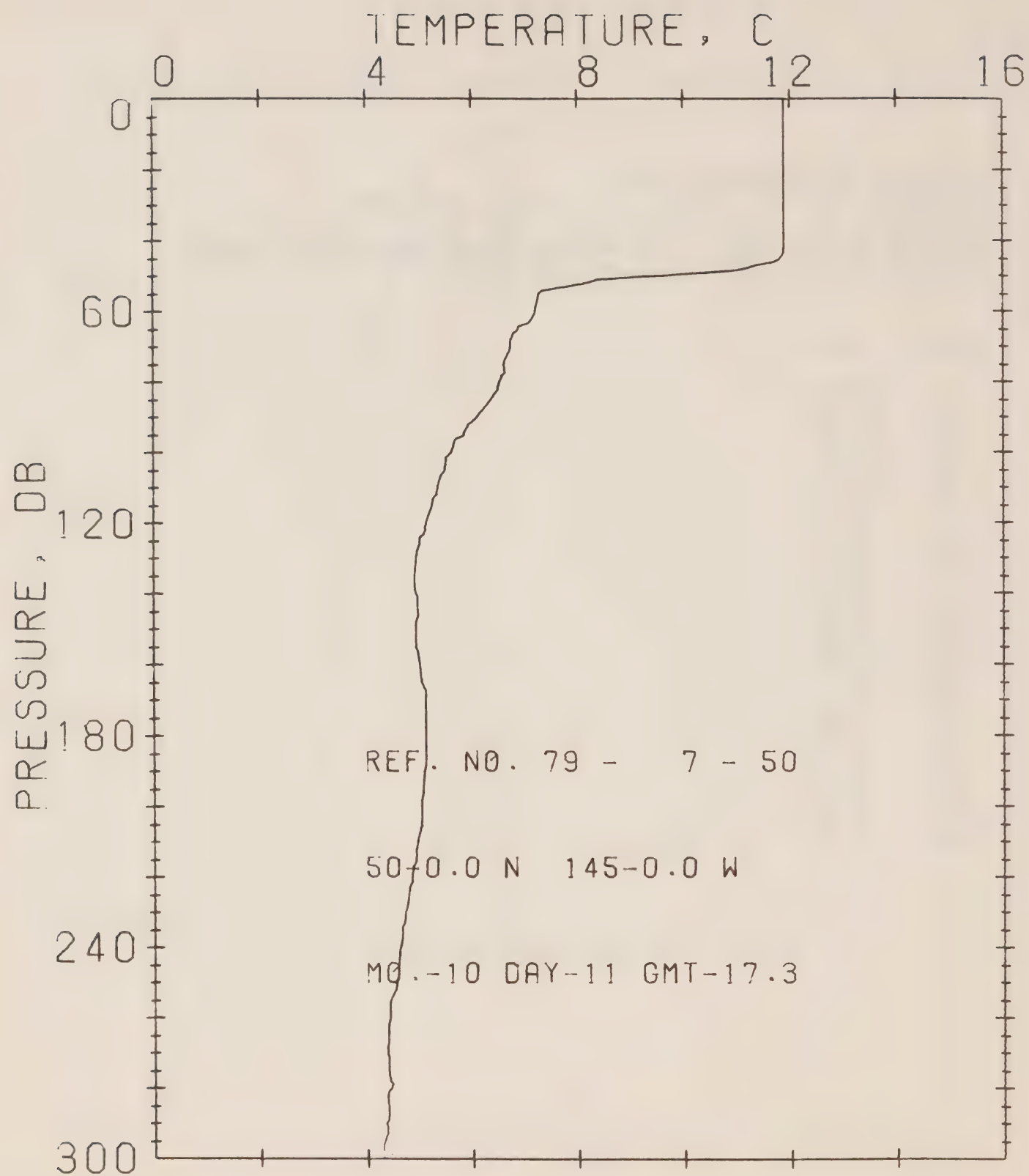
POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 240 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.02
10	12.00
20	12.00
30	12.00
50	10.45
75	6.41
100	5.53
125	5.11
150	5.01
175	5.20
200	5.06
225	4.89
250	4.76
300	4.41
400	4.10
500	3.95
600	3.75
800	3.31
1000	2.98
1200	2.70



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 50

DATE 11/10/79

POSITION 50- .0N, 145- .0W

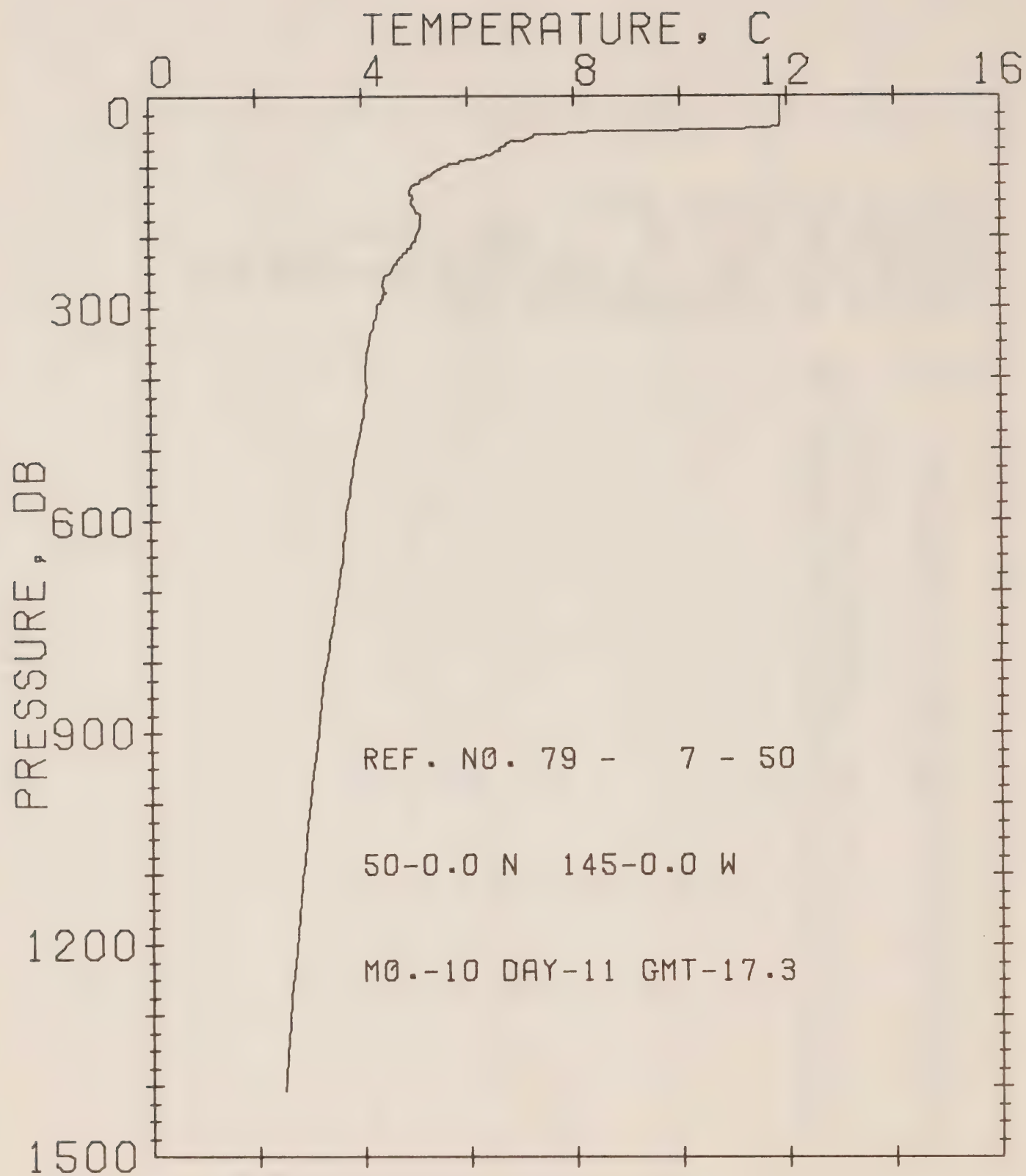
GMT 17.3

STATION P

RESULTS OF STP CAST 162 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP
0	11.90
10	11.90
20	11.90
30	11.90
40	11.90
50	9.41
60	7.21
70	6.74
80	6.54
90	6.10
100	5.64
110	5.36
120	5.15
130	4.96
140	4.94
150	4.94
160	5.00
170	5.13
180	5.12
190	5.09
200	5.03
210	4.95
220	4.86
230	4.73
240	4.63
250	4.56
260	4.42
270	4.37
280	4.45
290	4.35
300	4.29



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 50

DATE 11/10/79

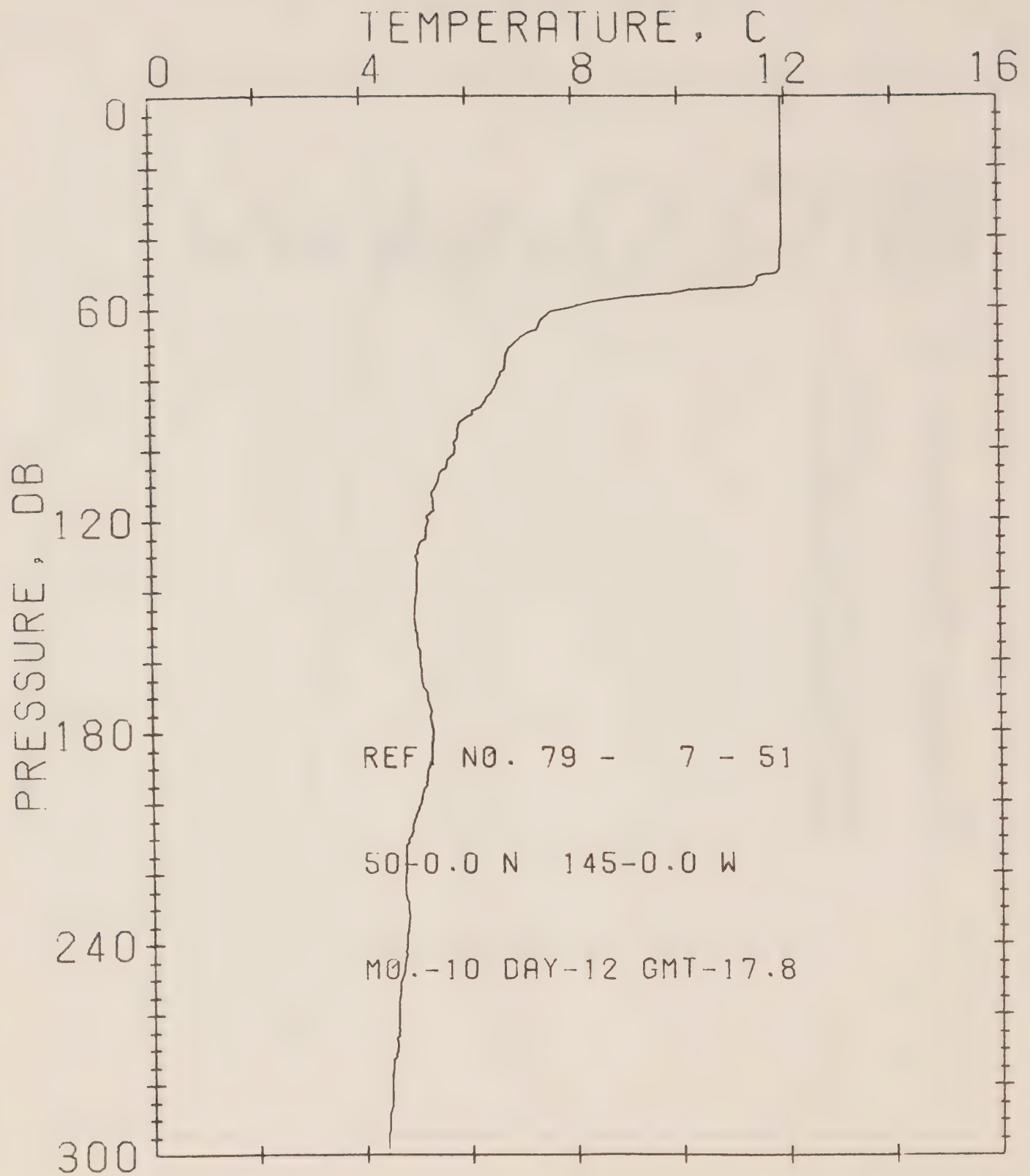
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 236 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.90
10	11.90
20	11.90
30	11.90
50	9.41
75	6.62
100	5.64
125	5.00
150	4.94
175	5.13
200	5.03
225	4.79
250	4.56
300	4.29
400	4.05
500	3.89
600	3.68
800	3.31
1000	2.98
1200	2.72



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 51

DATE 12/10/79

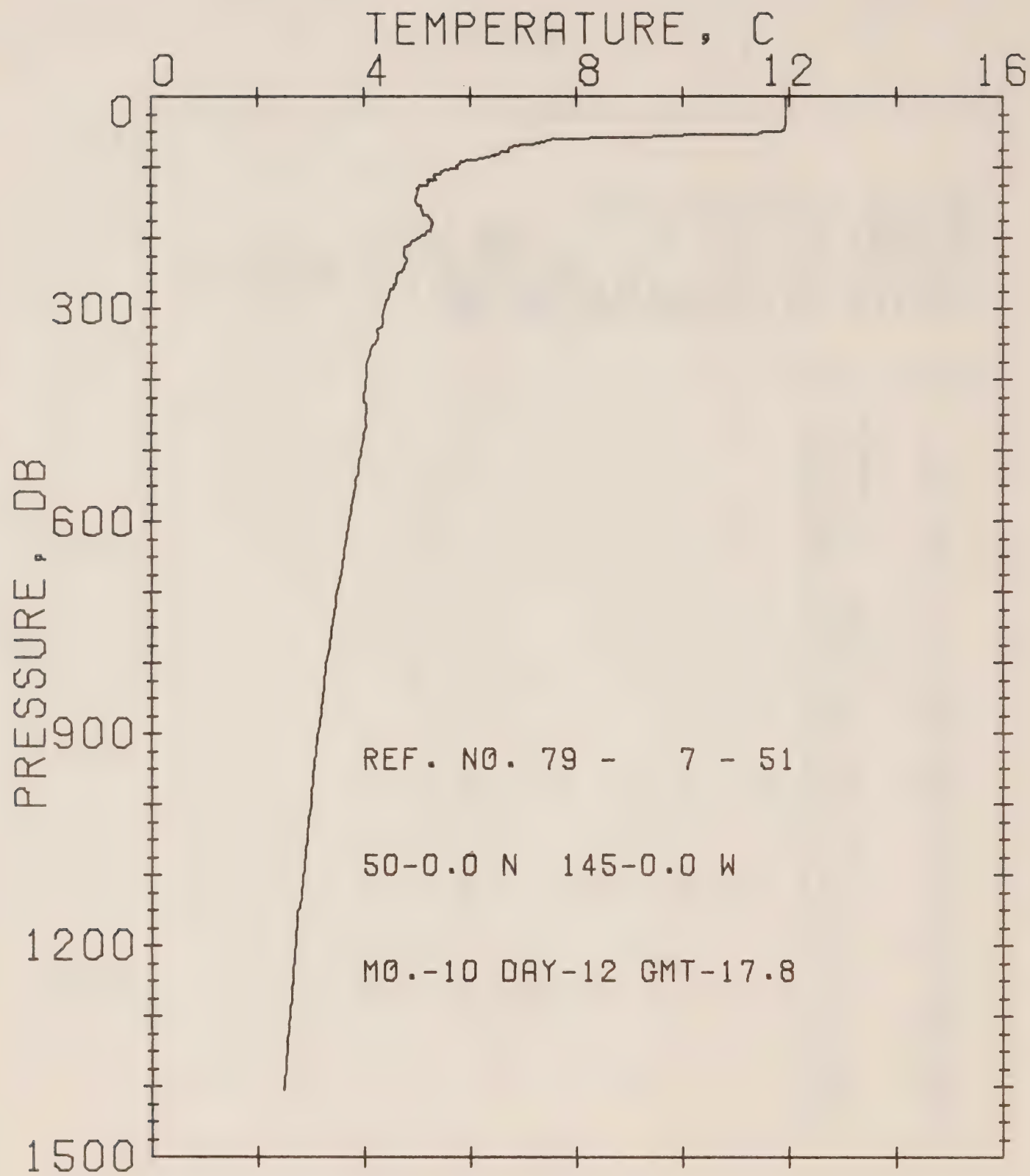
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 178 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.94
10	11.94
20	11.94
30	11.94
40	11.94
50	11.88
60	7.95
70	6.89
80	6.60
90	6.10
100	5.75
110	5.40
120	5.26
130	4.98
140	5.00
150	4.98
160	5.07
170	5.19
180	5.30
190	5.23
200	5.08
210	4.83
220	4.76
230	4.80
240	4.77
250	4.68
260	4.61
270	4.58
280	4.49
290	4.42
300	4.40



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 51

DATE 12/10/79

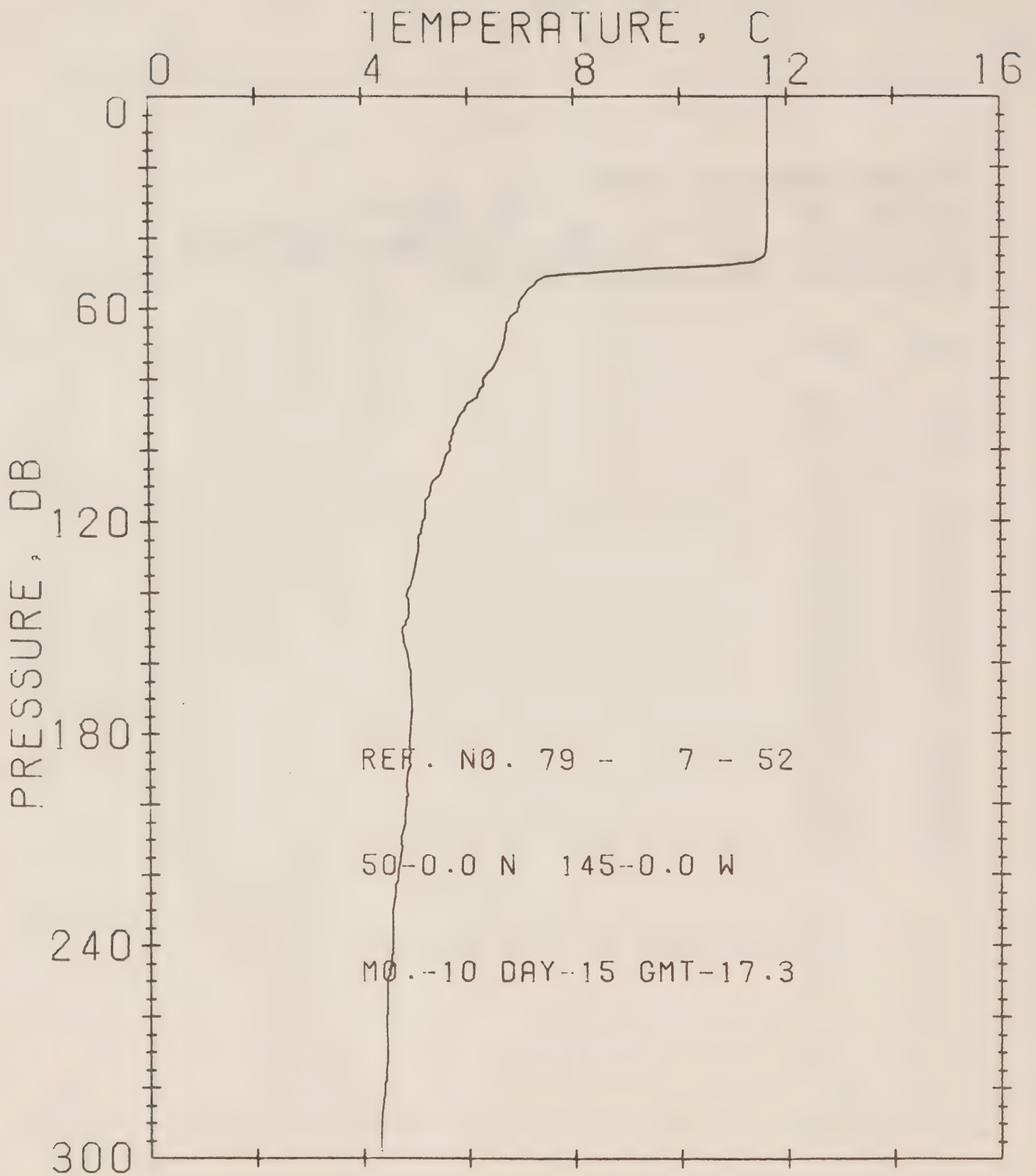
POSITION 50- .0N, 145- .0W GMT 17.8 STATION P

RESULTS OF STP CAST 251 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.94
10	11.94
20	11.94
30	11.94
50	11.88
75	6.73
100	5.75
125	5.19
150	4.98
175	5.25
200	5.08
225	4.75
250	4.68
300	4.40
400	4.04
500	3.95
600	3.72
800	3.30
1000	3.00
1200	2.71



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 52

DATE 15/10/79

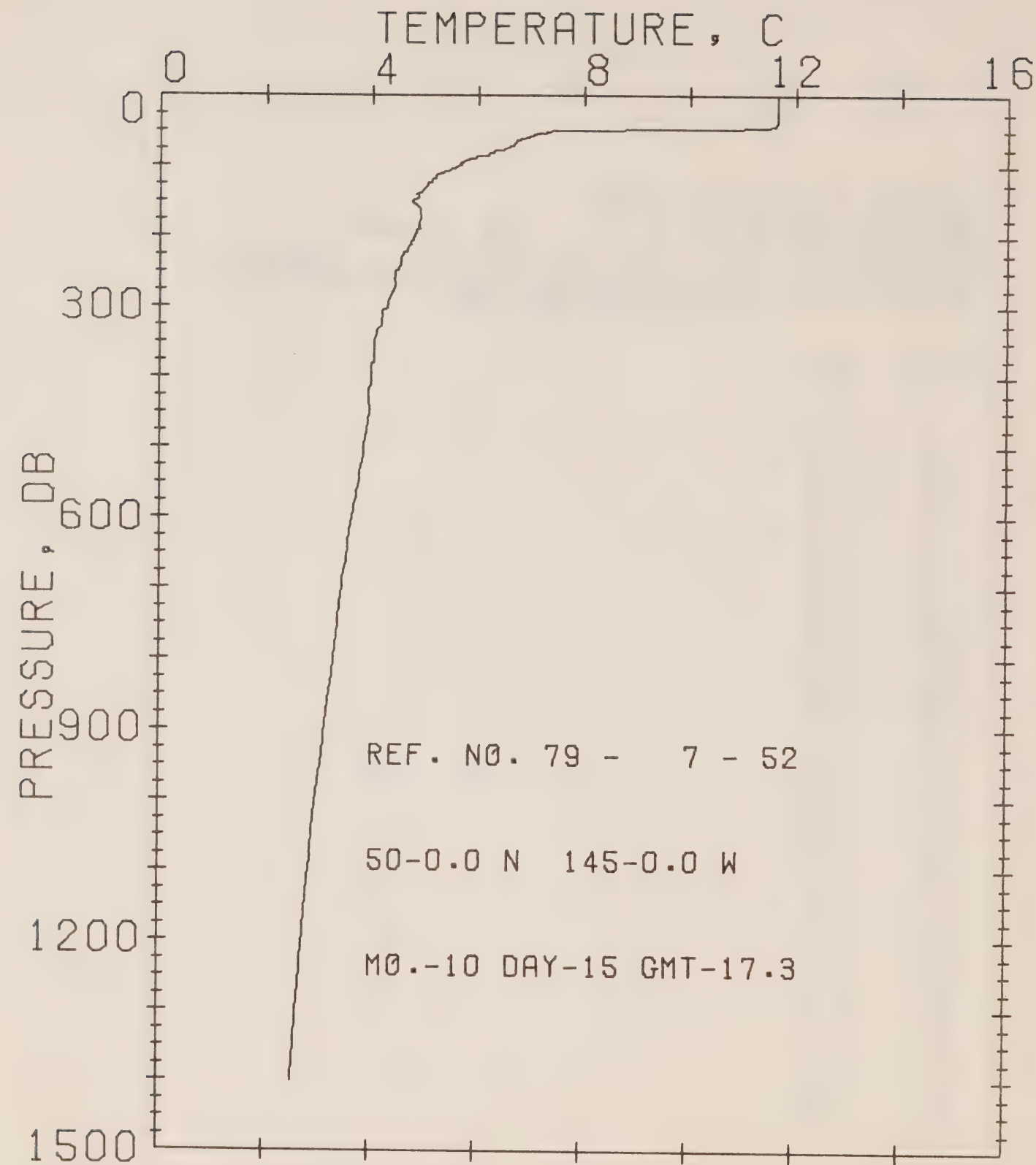
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.64
10	11.64
20	11.65
30	11.65
40	11.64
50	8.17
60	6.97
70	6.70
80	6.30
90	5.88
100	5.67
110	5.30
120	5.15
130	5.03
140	4.87
150	4.75
160	4.88
170	4.93
180	4.90
190	4.88
200	4.82
210	4.73
220	4.67
230	4.57
240	4.55
250	4.46
260	4.44
270	4.45
280	4.41
290	4.34
300	4.31



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 52

DATE 15/10/79

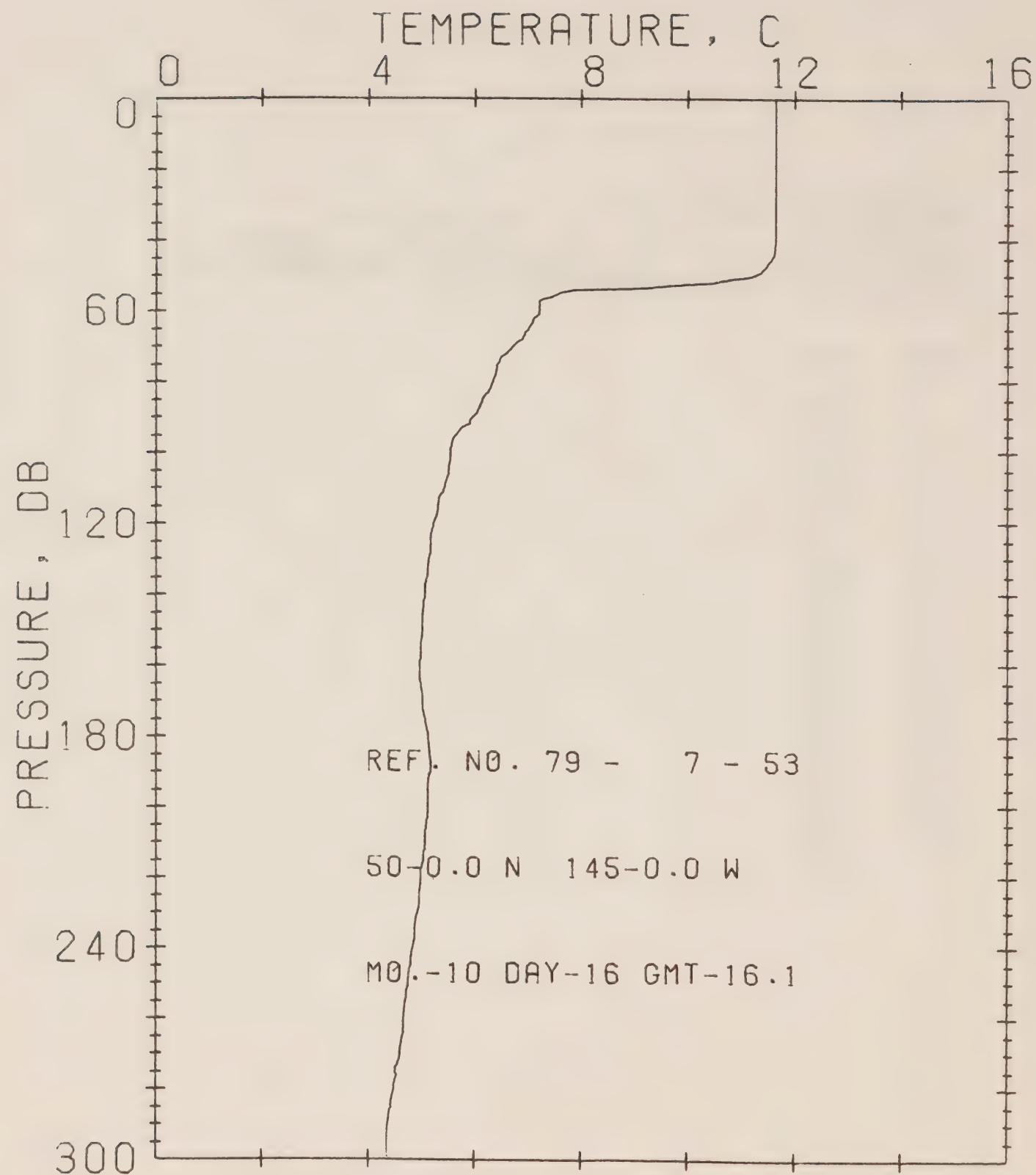
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 244 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.64
10	11.64
20	11.65
30	11.65
50	8.17
75	6.56
100	5.67
125	5.07
150	4.75
175	4.92
200	4.82
225	4.60
250	4.46
300	4.31
400	4.00
500	3.88
600	3.66
800	3.31
1000	2.97
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 53

DATE 16/10/79

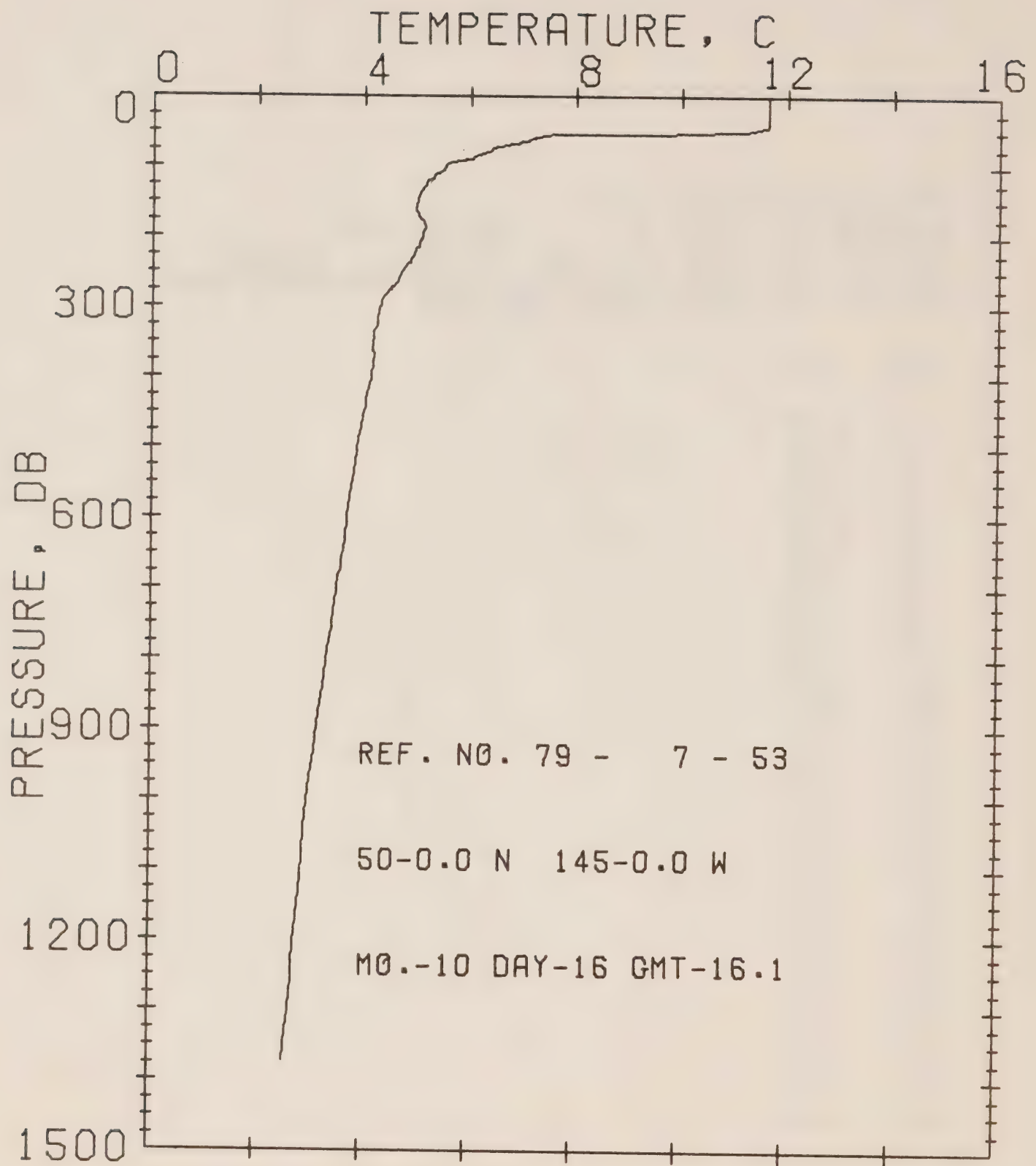
POSITION 50- .0N, 145- .0W GMT 16.1 STATION P

RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.65
10	11.65
20	11.65
30	11.65
40	11.64
50	11.23
60	7.22
70	6.73
80	6.35
90	5.99
100	5.55
110	5.44
120	5.23
130	5.15
140	5.07
150	5.01
160	4.96
170	5.02
180	5.12
190	5.18
200	5.12
210	5.07
220	4.99
230	4.93
240	4.83
250	4.74
260	4.68
270	4.60
280	4.47
290	4.37
300	4.32



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 53

DATE 16/10/79

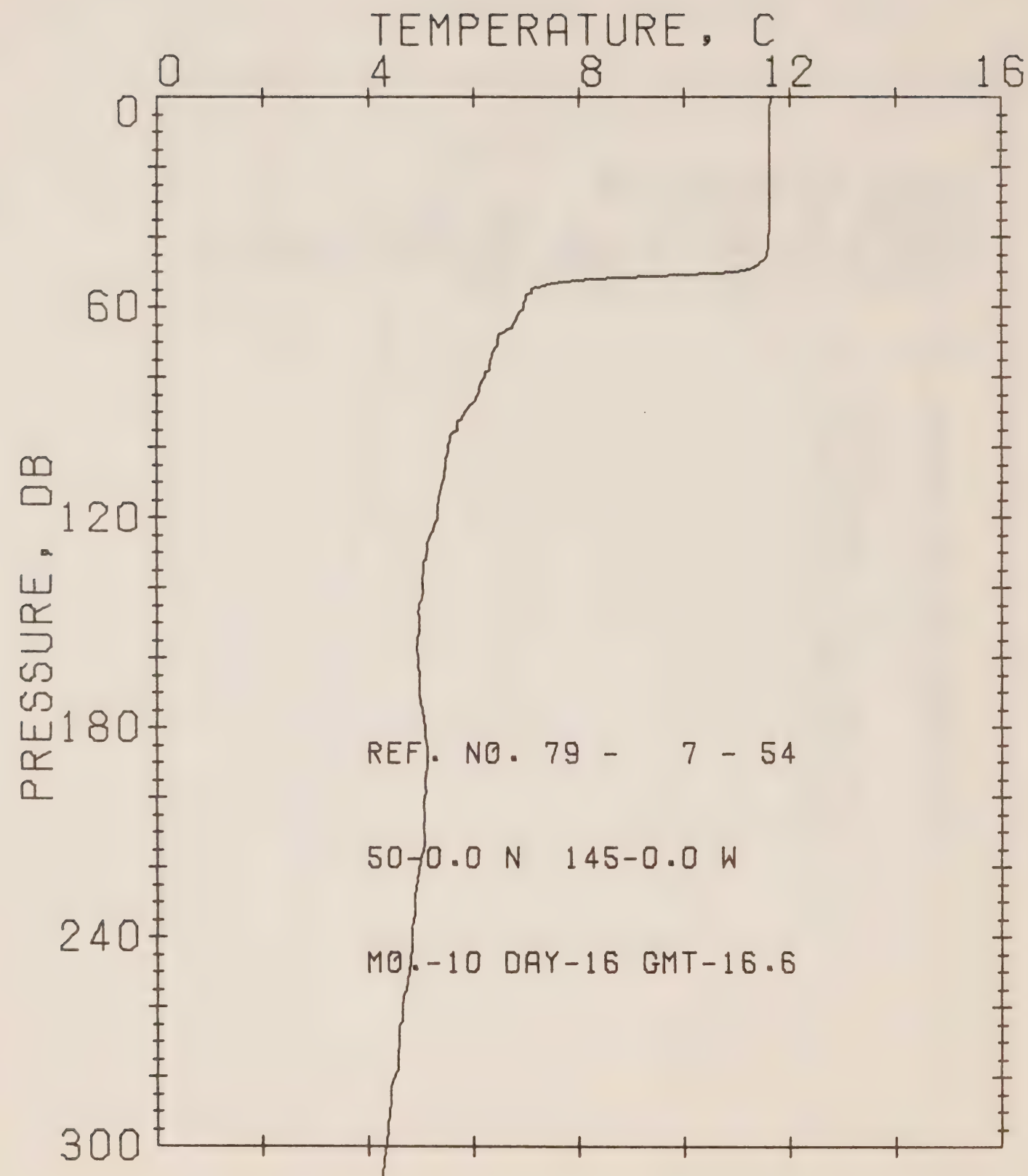
POSITION 50- .0N, 145- .0W GMT 16.1 STATION P

RESULTS OF STP CAST 213 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.65
10	11.65
20	11.65
30	11.65
50	11.23
75	6.44
100	5.55
125	5.16
150	5.01
175	5.08
200	5.12
225	4.96
250	4.74
300	4.32
400	4.16
500	3.91
600	3.72
800	3.35
1000	2.99
1200	2.77



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 54

DATE 16/10/79

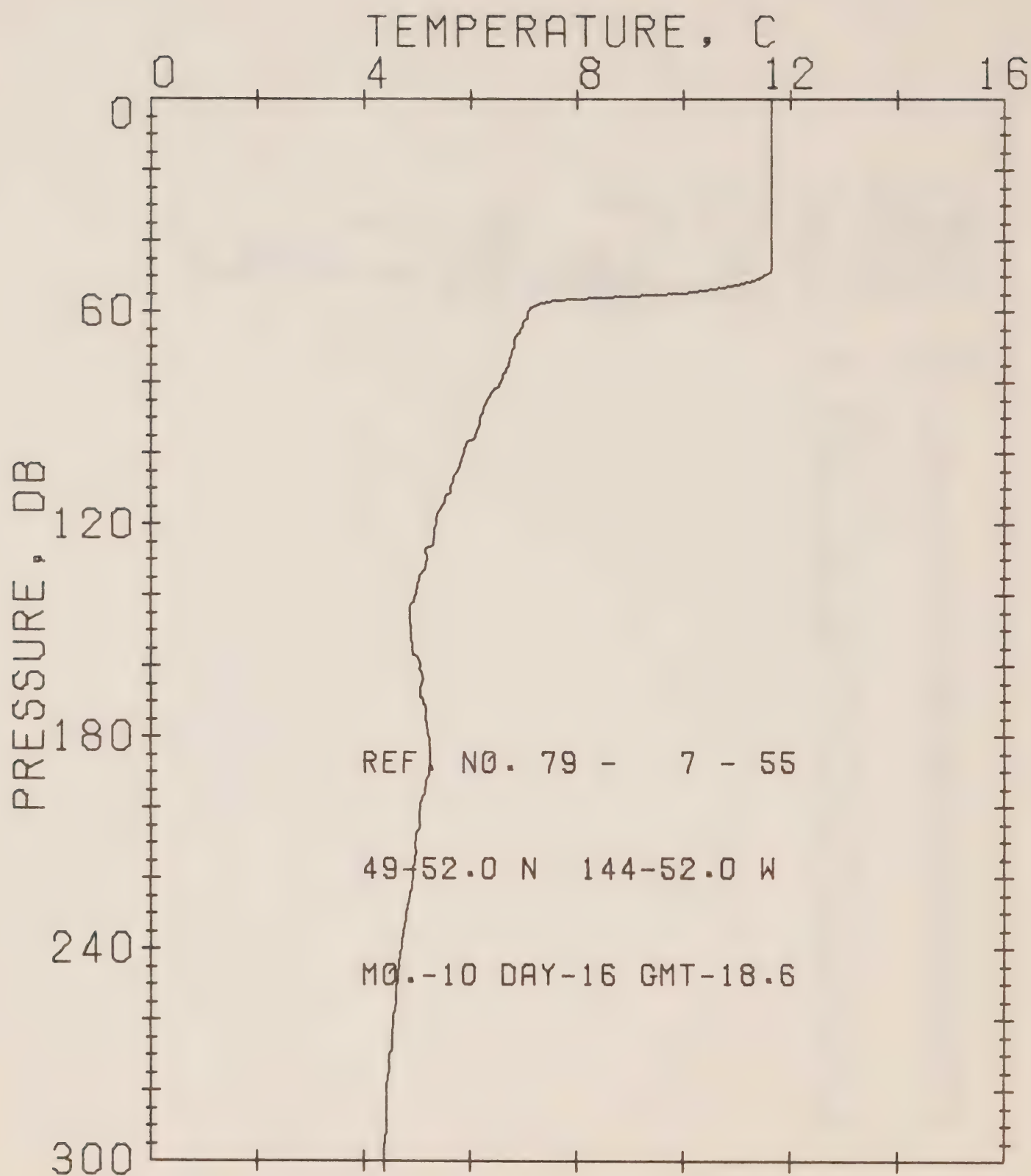
POSITION 50- .0N, 145- .0W GMT 16.6 STATION P

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.64
10	11.62
20	11.62
30	11.62
40	11.61
50	11.04
60	6.95
70	6.45
80	6.22
90	5.86
100	5.52
110	5.41
120	5.31
130	5.11
140	5.01
150	4.97
160	4.93
170	4.96
180	5.06
190	5.13
200	5.06
210	5.05
220	4.98
230	4.88
240	4.83
250	4.77
260	4.66
270	4.58
280	4.51
290	4.40
300	4.33



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 55

DATE 16/10/79

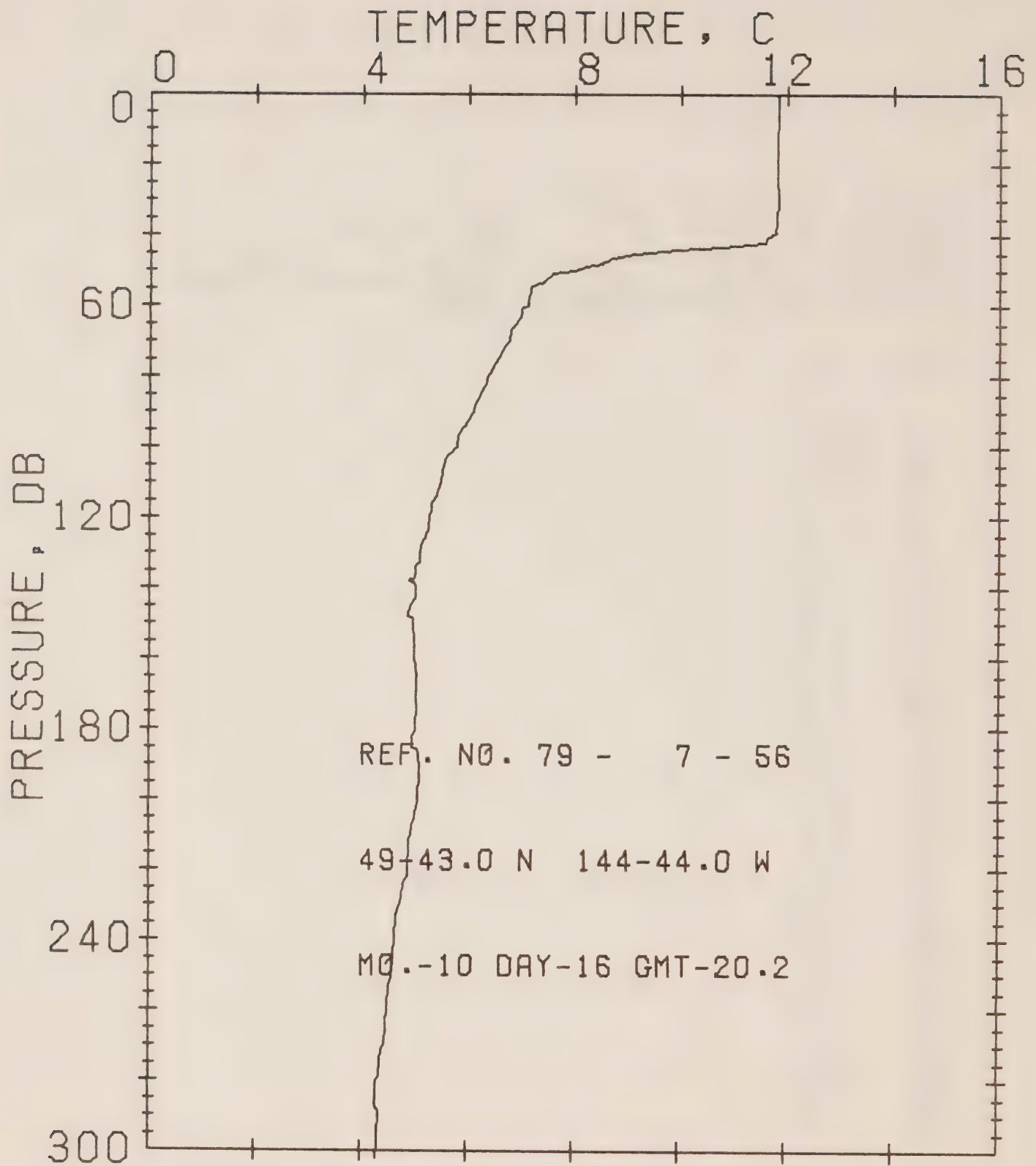
POSITION 49-52.0N, 144-52.0W GMT 18.6 STATION E3

RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.66
10	11.66
20	11.65
30	11.65
40	11.65
50	11.50
60	7.10
70	6.84
80	6.60
90	6.20
100	5.87
110	5.64
120	5.36
130	5.19
140	4.97
150	4.88
160	5.06
170	5.13
180	5.21
190	5.22
200	5.06
210	4.98
220	4.93
230	4.80
240	4.71
250	4.63
260	4.56
270	4.48
280	4.44
290	4.44
300	4.36



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 56

DATE 16/10/79

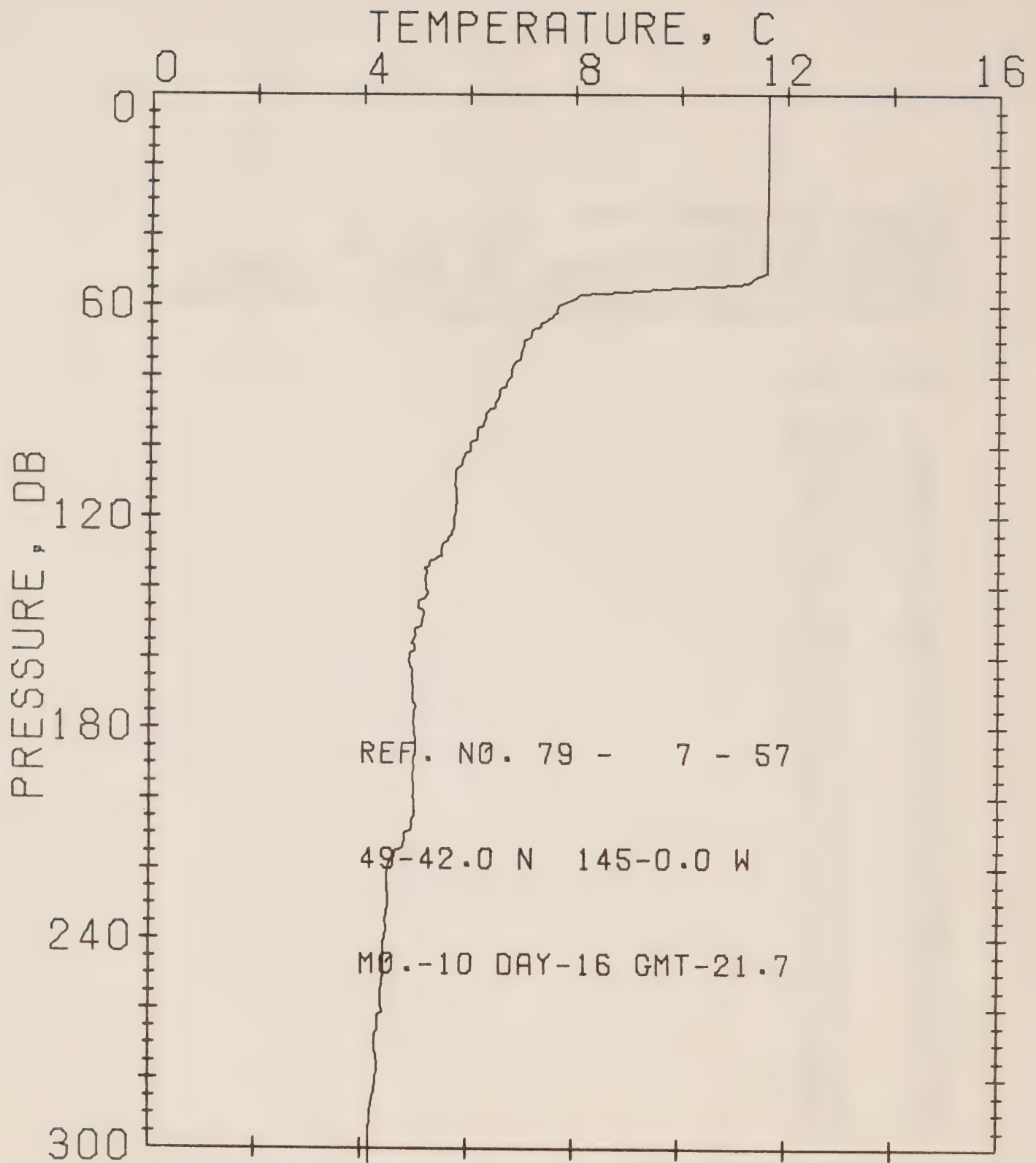
POSITION 49-43.0N, 144-44.0W GMT 20.2 STATION E4

RESULTS OF STP CAST 152 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.83
10	11.83
20	11.82
30	11.83
40	11.72
50	8.03
60	7.11
70	6.77
80	6.38
90	6.10
100	5.78
110	5.49
120	5.27
130	5.10
140	5.02
150	4.96
160	4.99
170	5.04
180	5.01
190	5.09
200	5.07
210	4.94
220	4.88
230	4.74
240	4.63
250	4.59
260	4.51
270	4.45
280	4.32
290	4.34
300	4.30



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 57

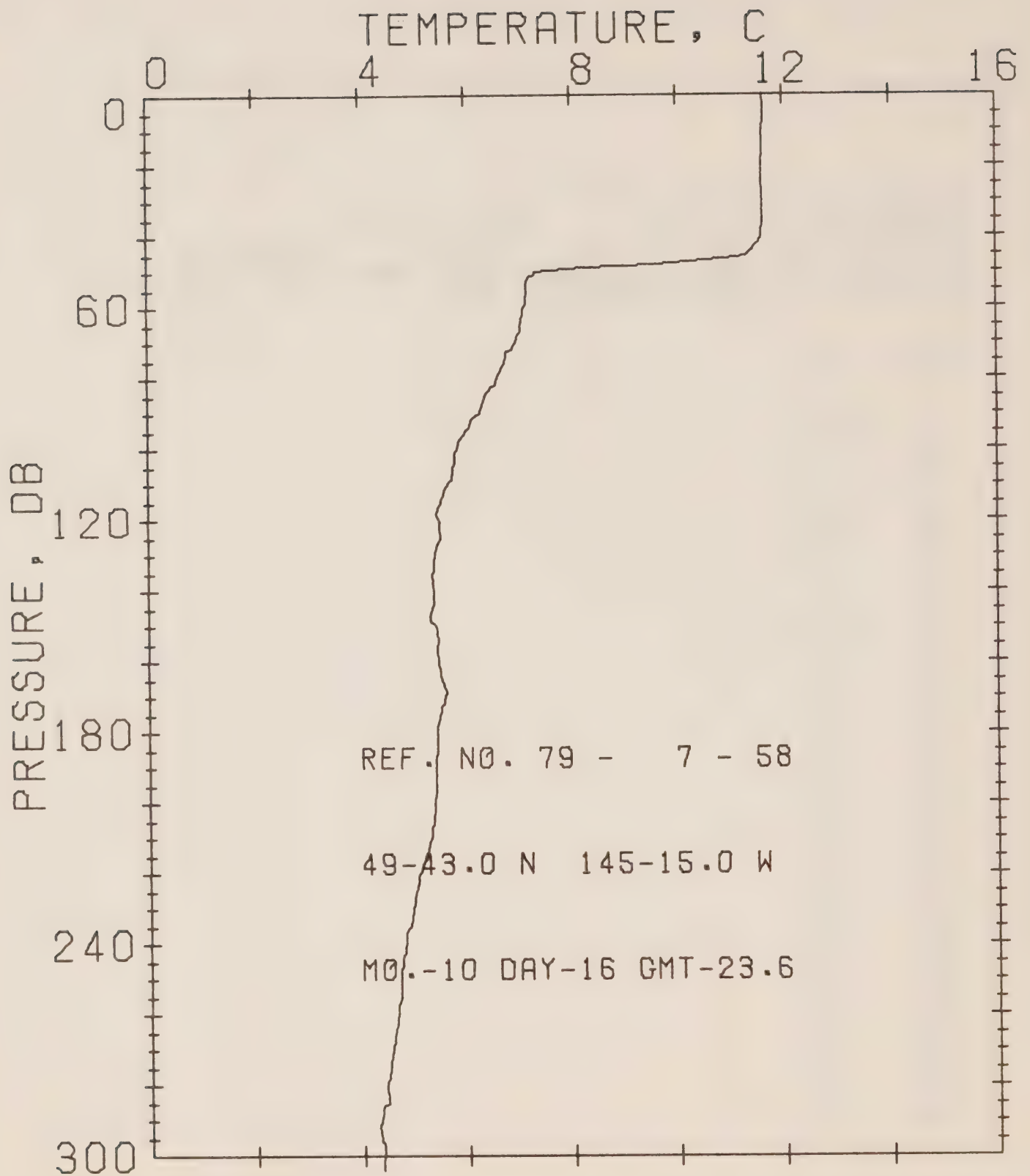
DATE 16/10/79

POSITION 49-42.0N, 145- .0W GMT 21.7 STATION C1

RESULTS OF STP CAST 185 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.65
10	11.65
20	11.64
30	11.64
40	11.62
50	11.62
60	7.69
70	7.05
80	6.79
90	6.38
100	6.03
110	5.75
120	5.75
130	5.49
140	5.20
150	5.13
160	4.90
170	4.95
180	4.99
190	4.96
200	4.96
210	4.81
220	4.50
230	4.50
240	4.46
250	4.42
260	4.38
270	4.27
280	4.31
290	4.18
300	4.15



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 58

DATE 16/10/79

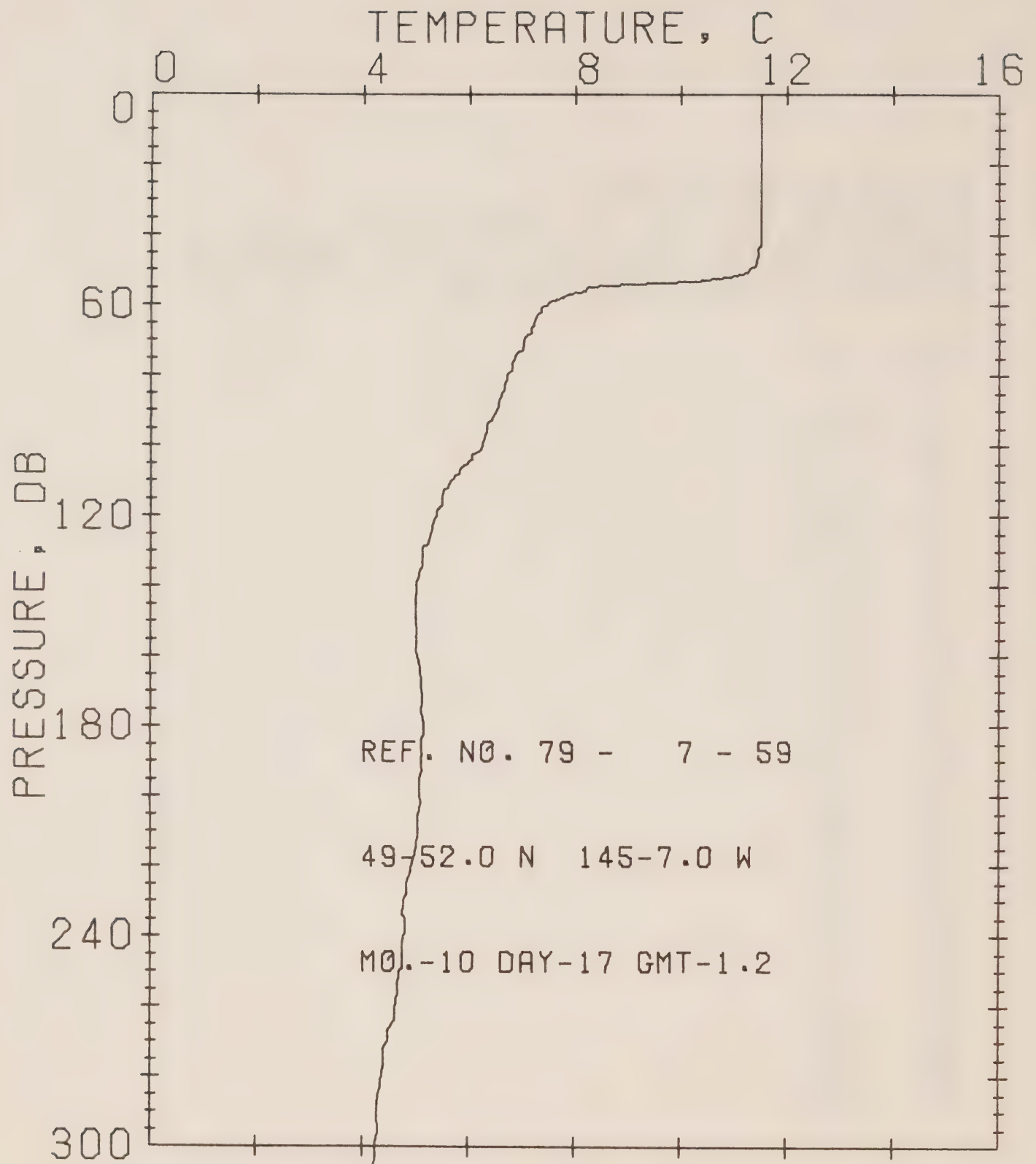
POSITION 49-43.0N, 145-15.0W GMT 23.6 STATION W4

RESULTS OF STP CAST 166 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.63
10	11.63
20	11.61
30	11.62
40	11.60
50	7.34
60	7.12
70	6.95
80	6.62
90	6.28
100	5.84
110	5.66
120	5.46
130	5.42
140	5.39
150	5.42
160	5.47
170	5.60
180	5.44
190	5.41
200	5.40
210	5.31
220	5.10
230	4.96
240	4.84
250	4.73
260	4.66
270	4.56
280	4.42
290	4.33
300	4.37



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 59

DATE 17/10/79

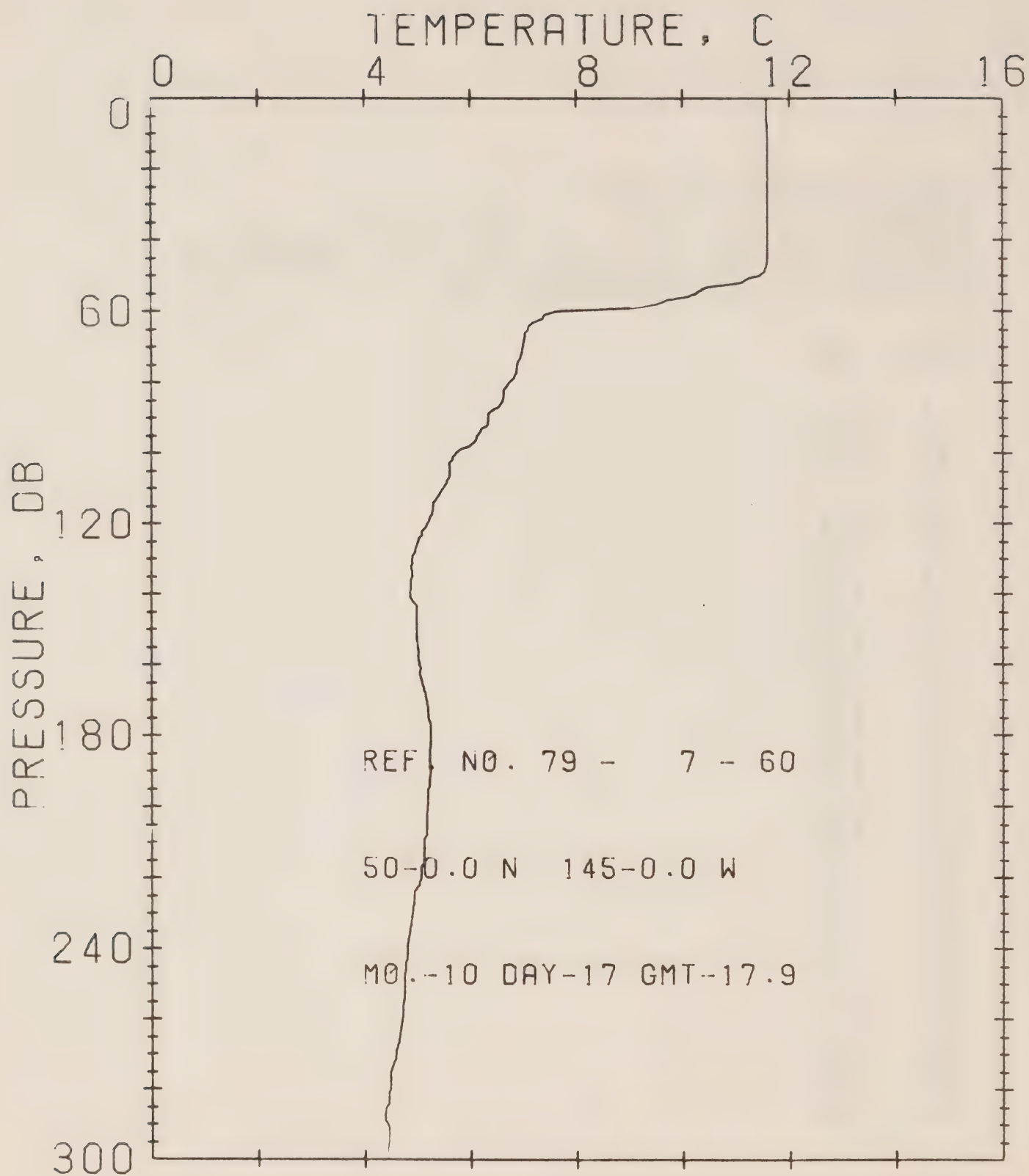
POSITION 49-52.0N, 145- 7.0W GMT 1.2 STATION W3

RESULTS OF STP CAST 185 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.51
10	11.51
20	11.51
30	11.51
40	11.51
50	11.31
60	7.49
70	7.05
80	6.72
90	6.52
100	6.28
110	5.68
120	5.40
130	5.13
140	5.01
150	4.99
160	5.01
170	5.10
180	5.15
190	5.09
200	5.08
210	5.04
220	4.93
230	4.78
240	4.79
250	4.69
260	4.62
270	4.48
280	4.37
290	4.27
300	4.24



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 60

DATE 17/10/79

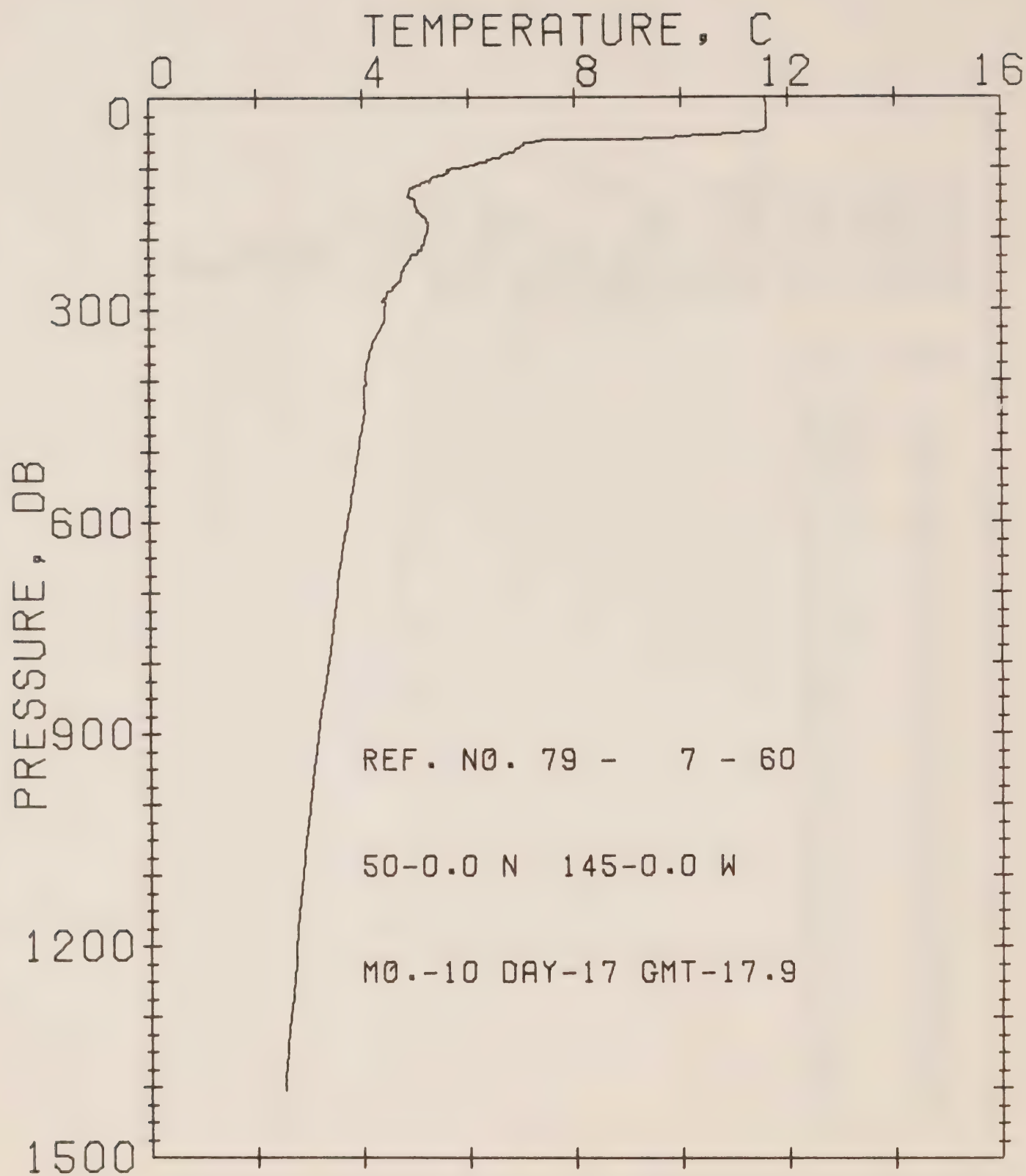
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.57
10	11.59
20	11.60
30	11.60
40	11.60
50	11.46
60	7.65
70	7.00
80	6.76
90	6.35
100	5.74
110	5.50
120	5.20
130	4.91
140	4.87
150	4.98
160	5.04
170	5.16
180	5.26
190	5.24
200	5.19
210	5.13
220	5.06
230	4.89
240	4.79
250	4.76
260	4.71
270	4.59
280	4.48
290	4.44
300	4.44



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 60

DATE 17/10/79

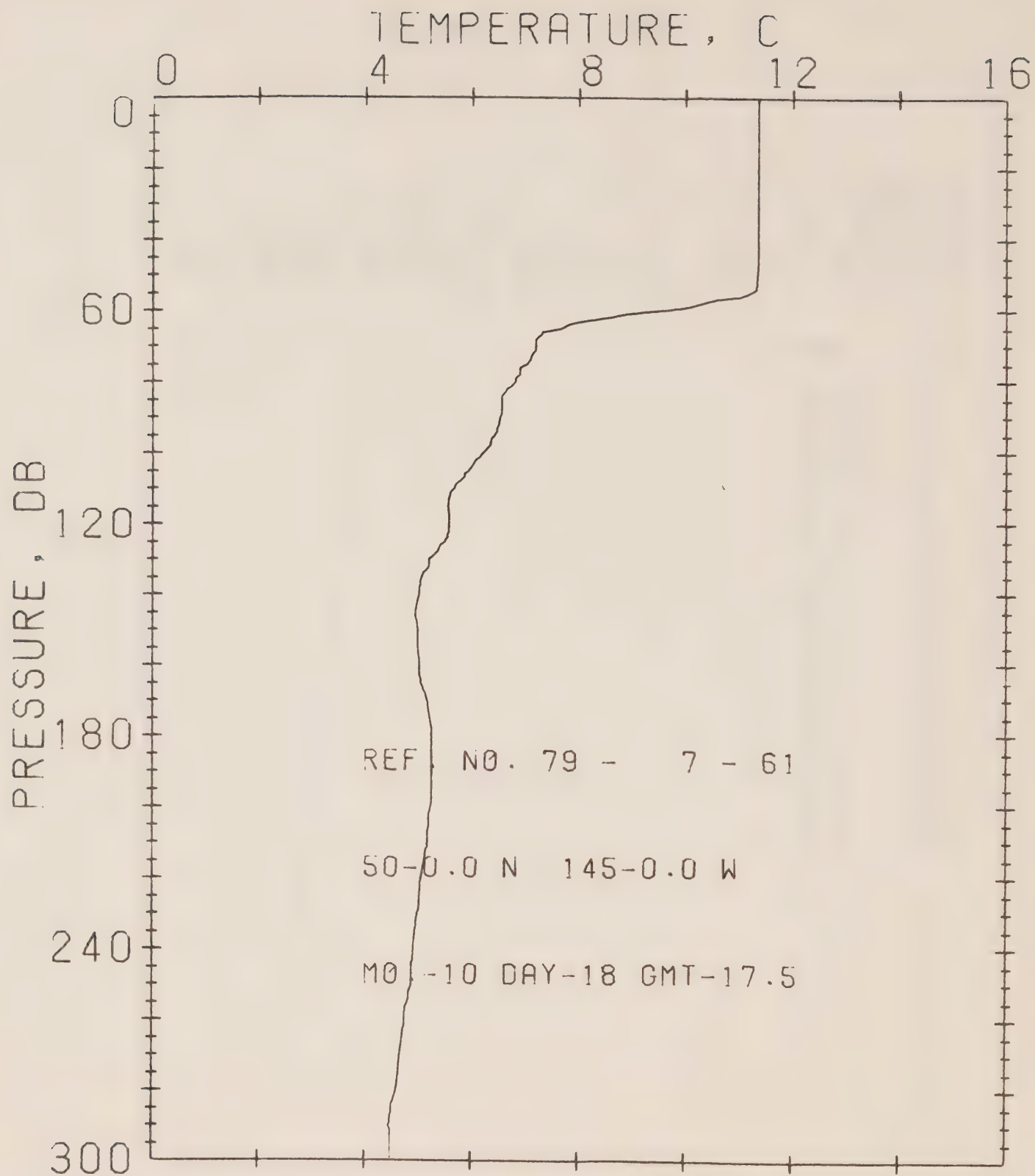
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 247 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.57
10	11.59
20	11.60
30	11.60
50	11.46
75	6.89
100	5.74
125	5.01
150	4.98
175	5.20
200	5.19
225	4.94
250	4.76
300	4.44
400	4.06
500	3.92
600	3.70
800	3.35
1000	3.00
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 61

DATE 18/10/79

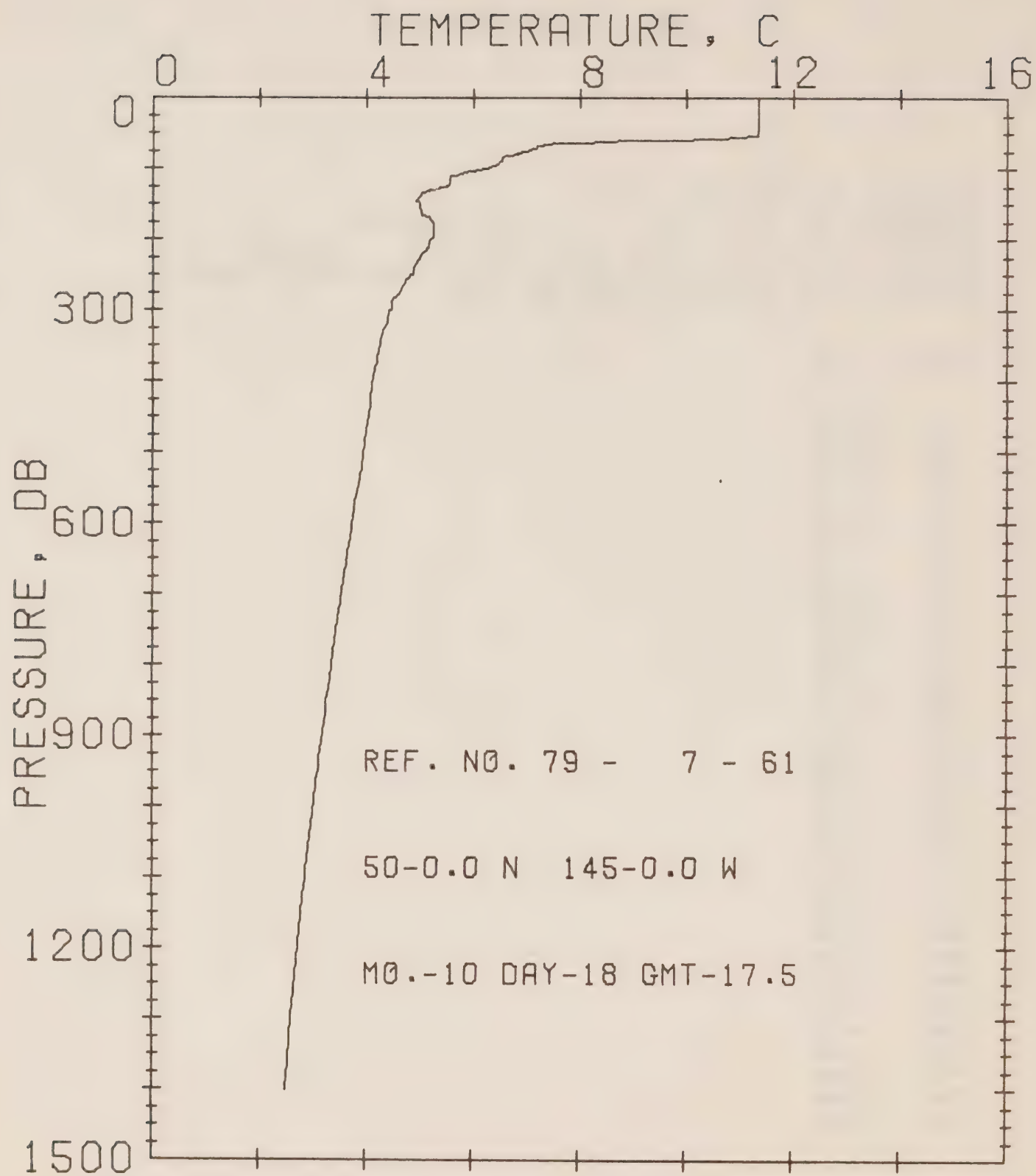
POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 146 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.36
10	11.36
20	11.37
30	11.37
40	11.36
50	11.36
60	9.63
70	7.20
80	6.82
90	6.53
100	6.22
110	5.68
120	5.56
130	5.19
140	5.01
150	4.99
160	5.00
170	5.16
180	5.24
190	5.25
200	5.23
210	5.17
220	5.05
230	4.98
240	4.93
250	4.87
260	4.75
270	4.68
280	4.60
290	4.46
300	4.46



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 61

DATE 18/10/79

POSITION 50- .0N, 145- .0W

GMT 17.5

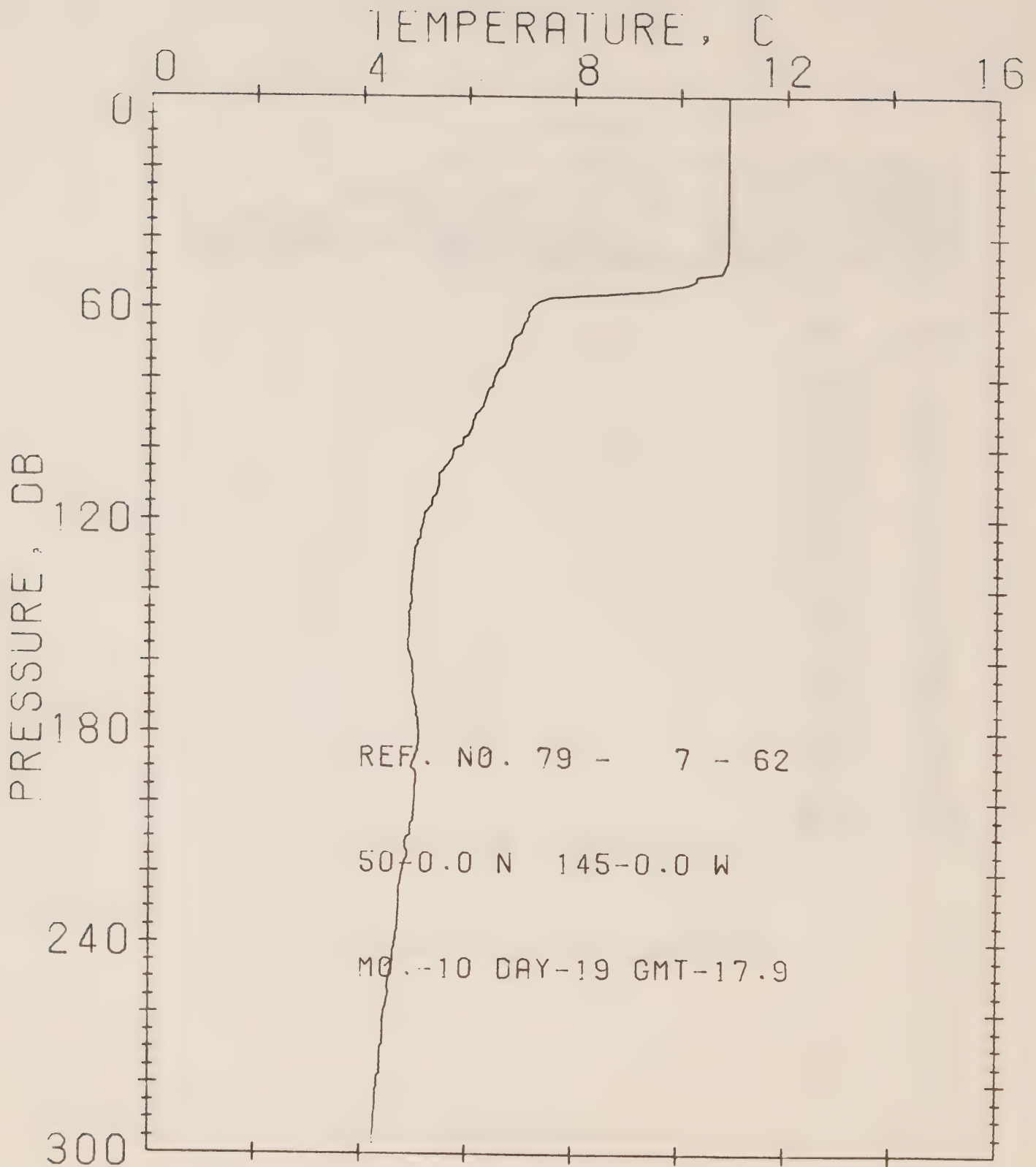
STATION P

RESULTS OF STP CAST 227 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.36
10	11.36
20	11.37
30	11.37
50	11.36
75	7.05
100	6.22
125	5.49
150	4.99
175	5.20
200	5.23
225	5.02
250	4.87
300	4.46
400	4.11
500	3.97
600	3.75
800	3.37
1000	3.02
1200	2.75



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 62

DATE 19/10/79

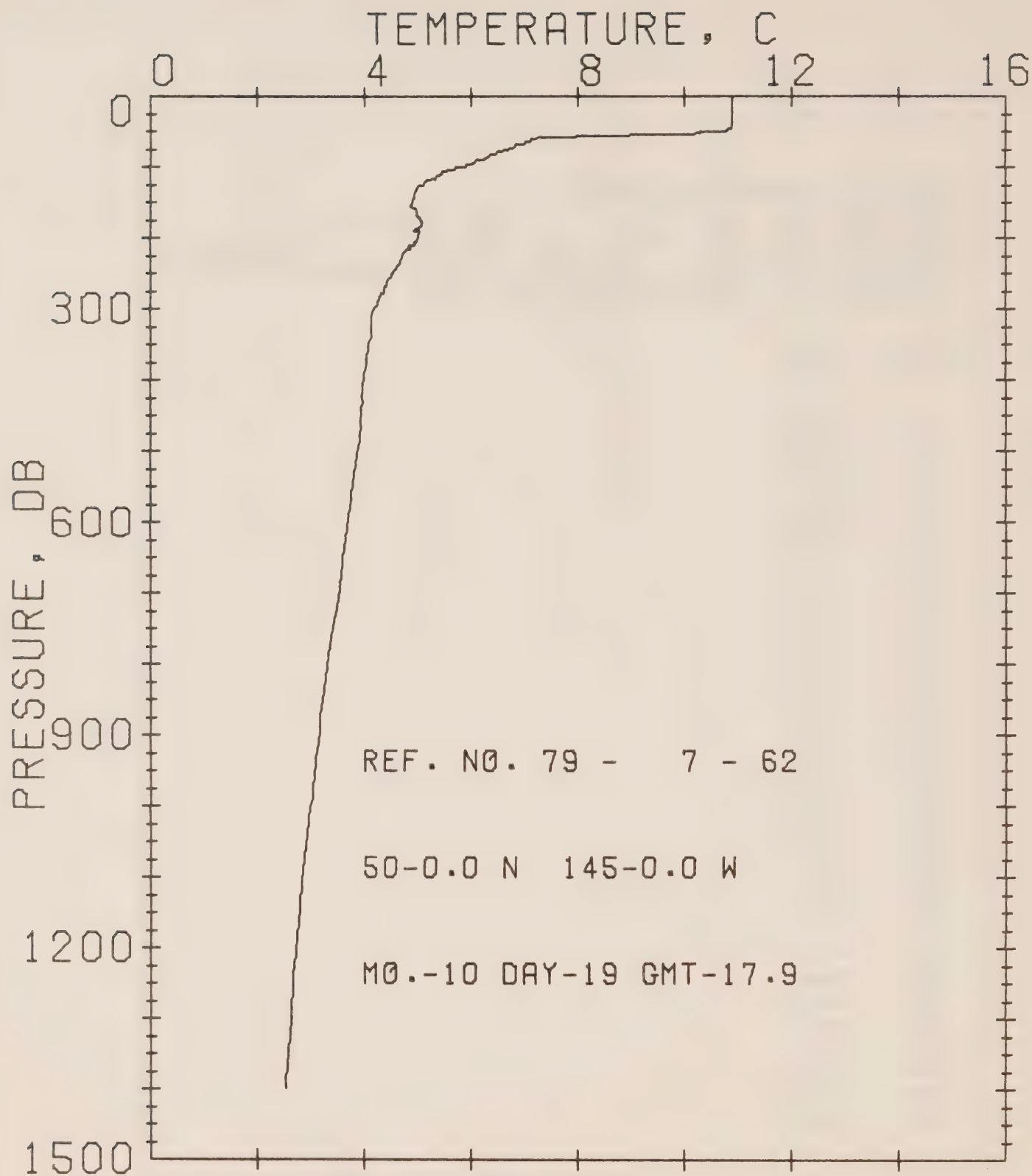
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	10.91
10	10.91
20	10.92
30	10.92
40	10.92
50	10.81
60	7.20
70	6.83
80	6.50
90	6.16
100	5.74
110	5.46
120	5.18
130	5.00
140	4.93
150	4.92
160	4.95
170	4.98
180	5.10
190	4.94
200	5.00
210	4.86
220	4.78
230	4.71
240	4.64
250	4.53
260	4.45
270	4.36
280	4.31
290	4.28
300	4.21



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 62

DATE 19/10/79

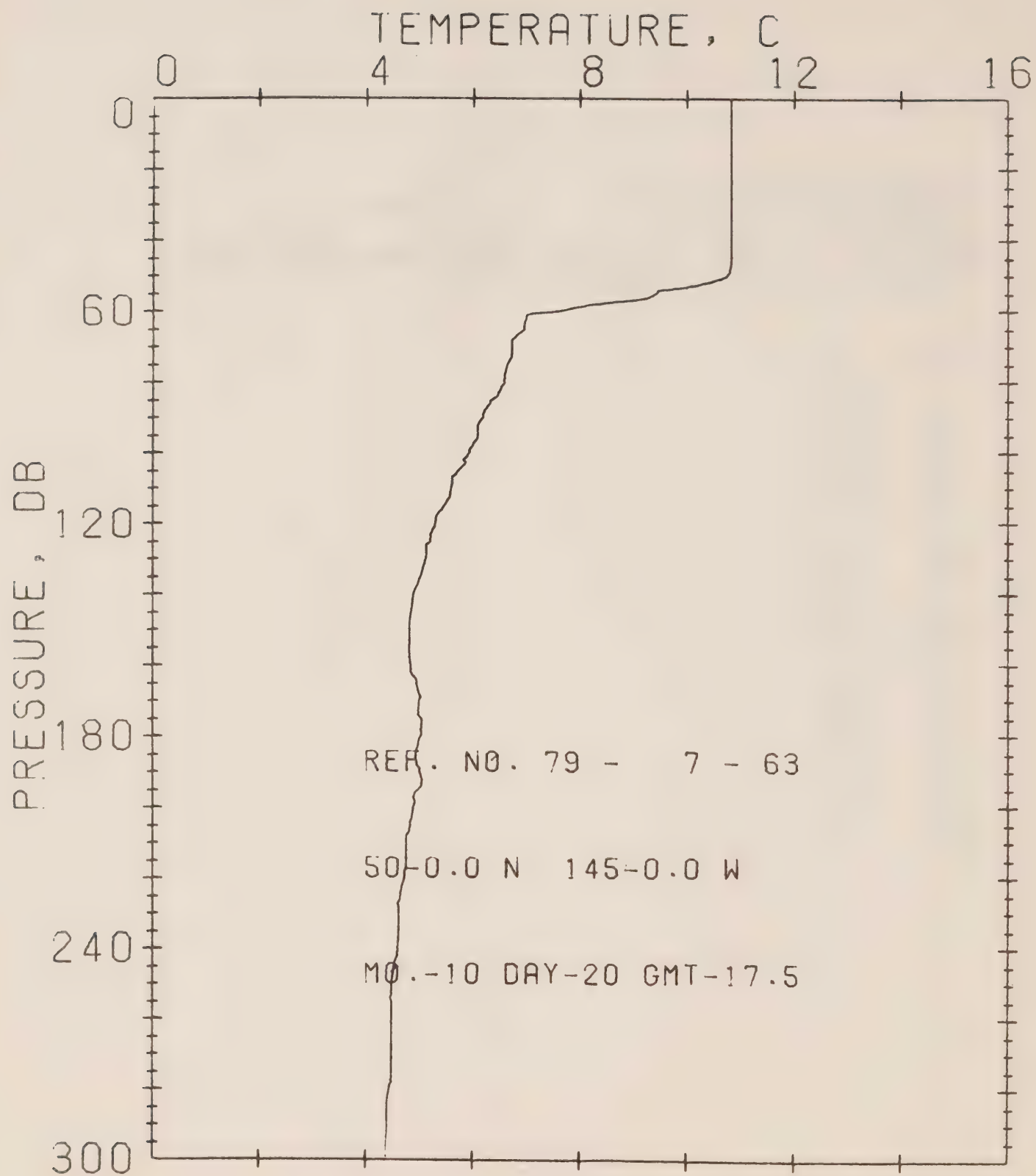
POSITION 50- .0N, 145- .0W GMT 17.9 STATION P

RESULTS OF STP CAST 241 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	10.91
10	10.91
20	10.92
30	10.92
50	10.81
75	6.71
100	5.74
125	5.12
150	4.92
175	5.05
200	5.00
225	4.72
250	4.53
300	4.21
400	3.99
500	3.89
600	3.69
800	3.32
1000	3.00
1200	2.73



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 63

DATE 20/10/79

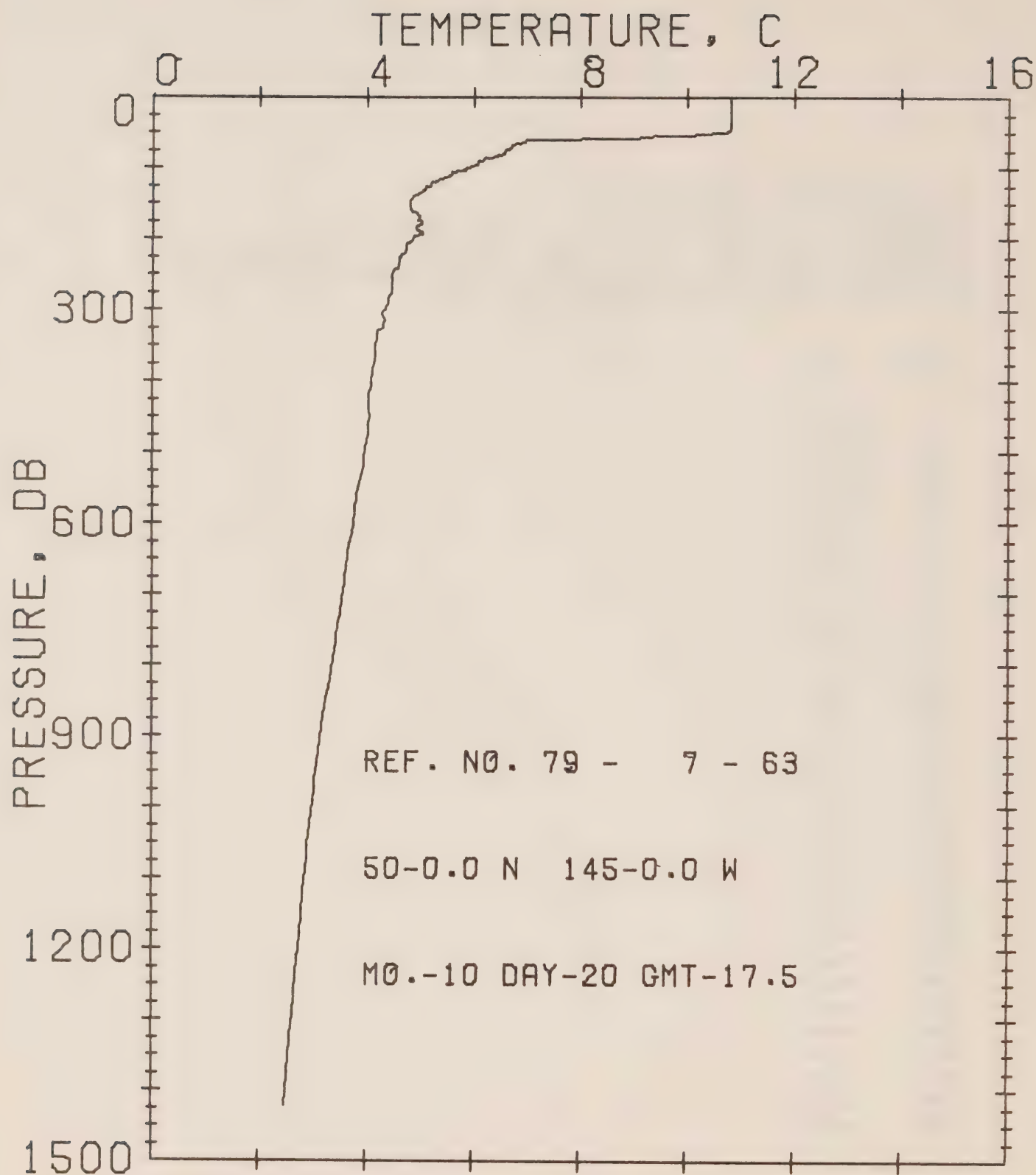
POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 162 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	10.83
10	10.83
20	10.83
30	10.83
40	10.83
50	10.76
60	7.64
70	6.73
80	6.59
90	6.19
100	5.91
110	5.58
120	5.30
130	5.11
140	4.89
150	4.81
160	4.83
170	4.98
180	5.02
190	4.98
200	4.87
210	4.76
220	4.73
230	4.60
240	4.59
250	4.47
260	4.49
270	4.49
280	4.45
290	4.41
300	4.37



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 63

DATE 20/10/79

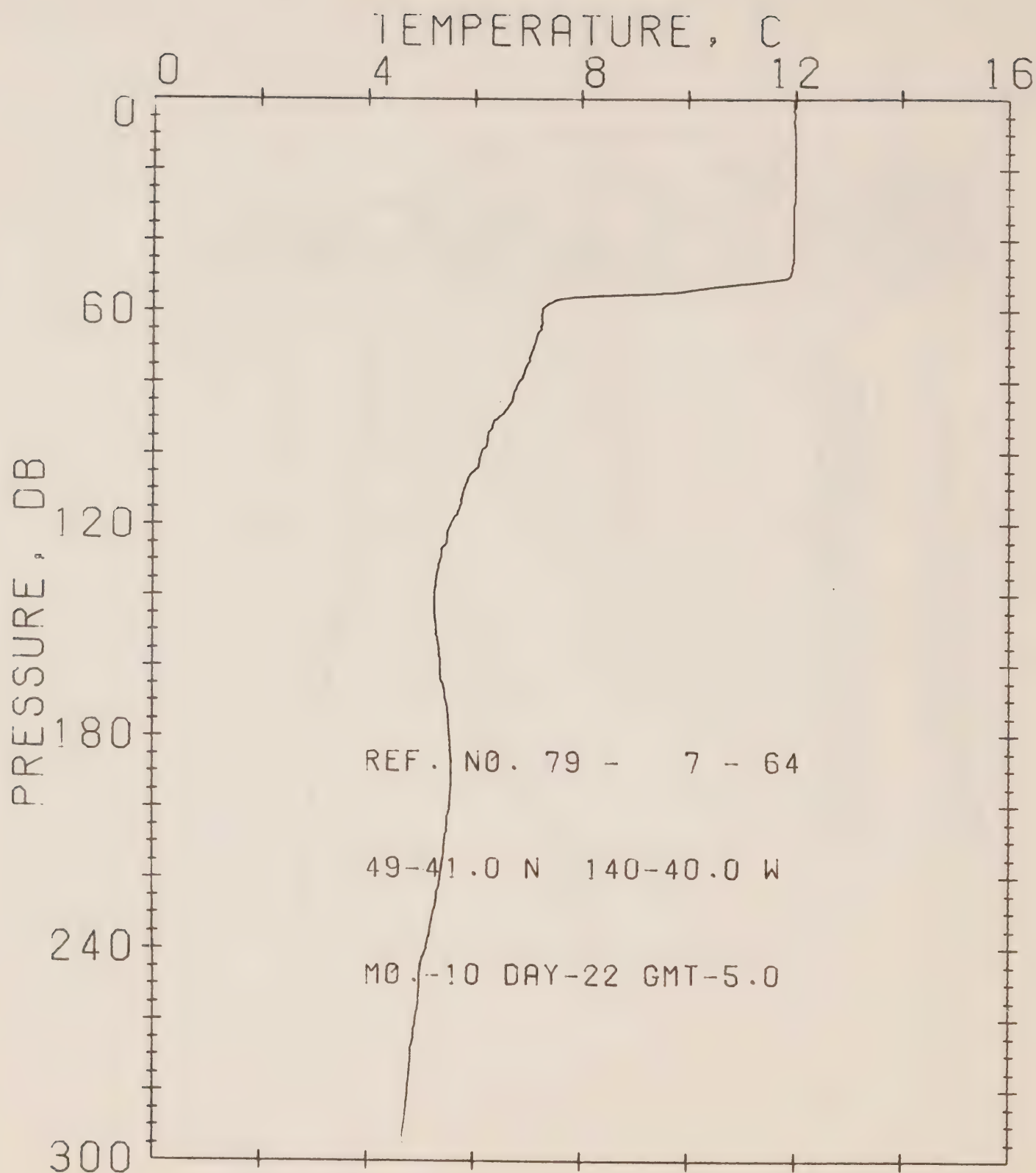
POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 226 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	10.83
10	10.83
20	10.83
30	10.83
50	10.76
75	6.64
100	5.91
125	5.20
150	4.81
175	5.03
200	4.87
225	4.63
250	4.47
300	4.37
400	4.07
500	3.97
600	3.76
800	3.37
1000	3.01
1200	2.75



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 64

DATE 22/10/79

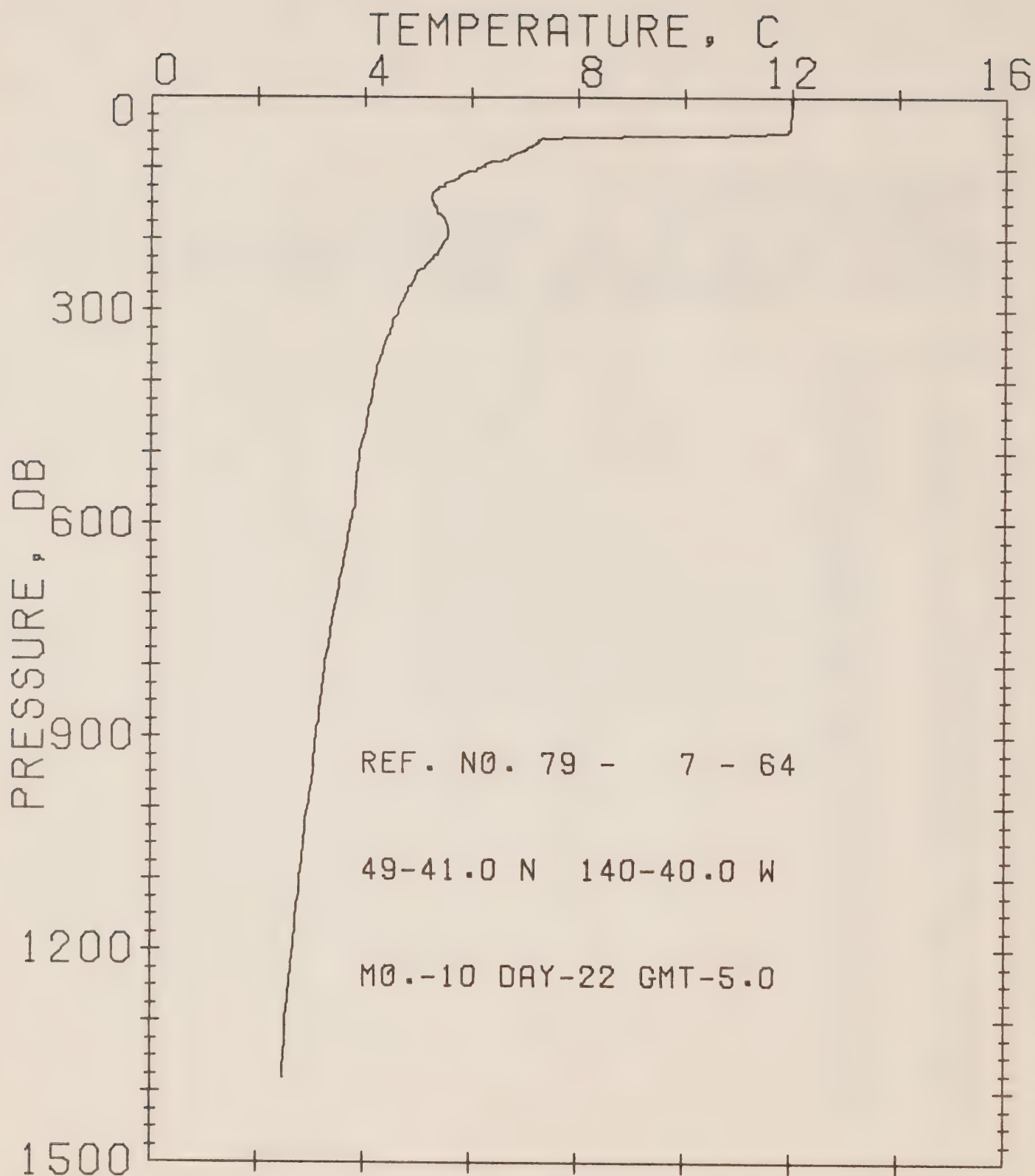
POSITION 49-41.0N, 140-40.0W GMT 5.0 STATION 11

RESULTS OF STP CAST 126 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.98
10	11.99
20	12.00
30	11.98
40	11.97
50	11.93
60	7.29
70	7.13
80	6.84
90	6.46
100	6.13
110	5.82
120	5.56
130	5.36
140	5.25
150	5.27
160	5.36
170	5.47
180	5.54
190	5.56
200	5.55
210	5.45
220	5.37
230	5.24
240	5.11
250	4.98
260	4.92
270	4.83
280	4.77
290	4.71
300	4.65



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 64

DATE 22/10/79

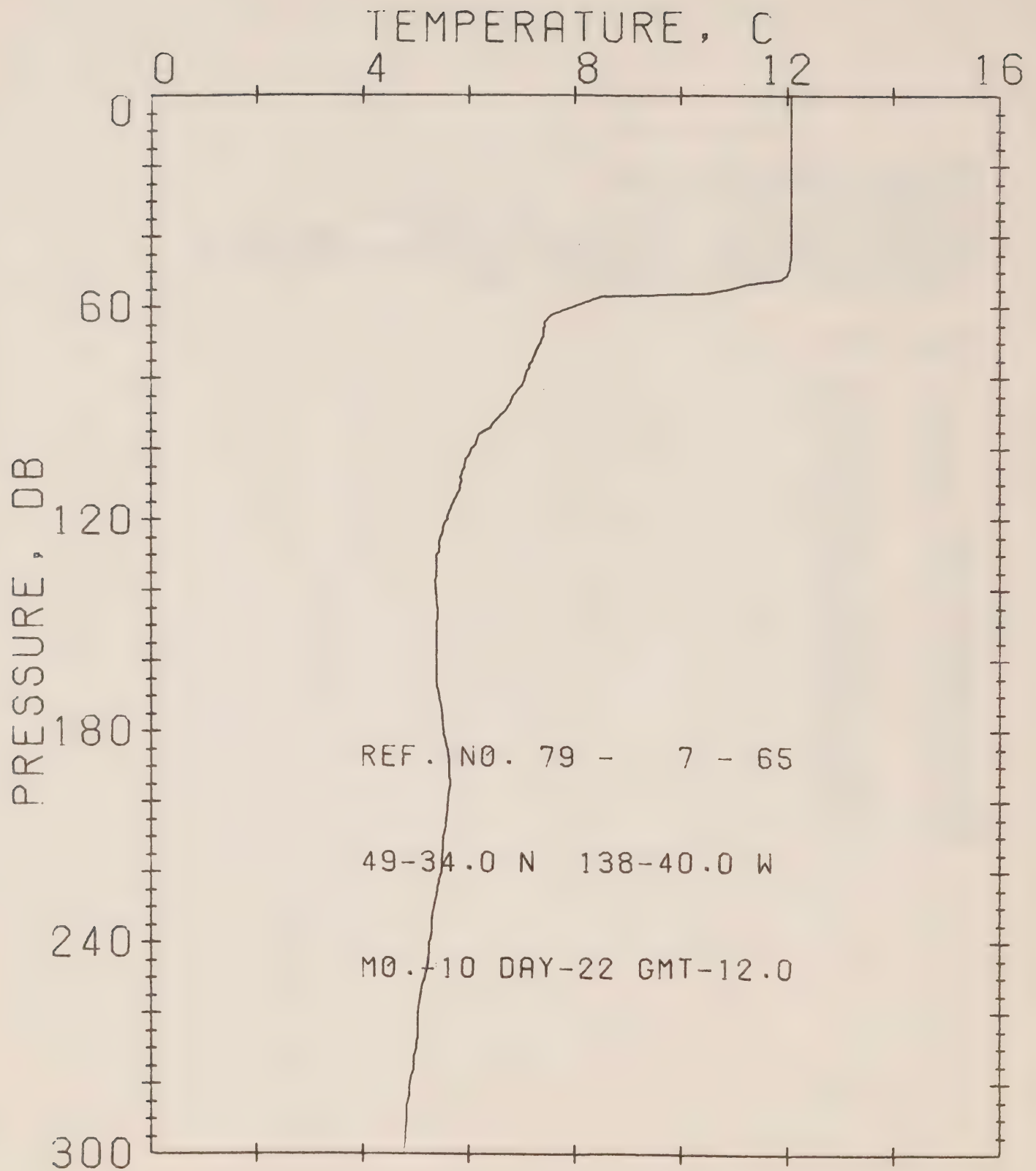
POSITION 49-41.0N, 140-40.0W GMT 5.0 STATION 11

RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	11.98
10	11.99
20	12.00
30	11.98
50	11.93
75	6.98
100	6.13
125	5.48
150	5.27
175	5.51
200	5.55
225	5.30
250	4.98
300	4.65
400	4.19
500	3.92
600	3.76
800	3.28
1000	2.96
1200	2.68



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 65

DATE 22/10/79

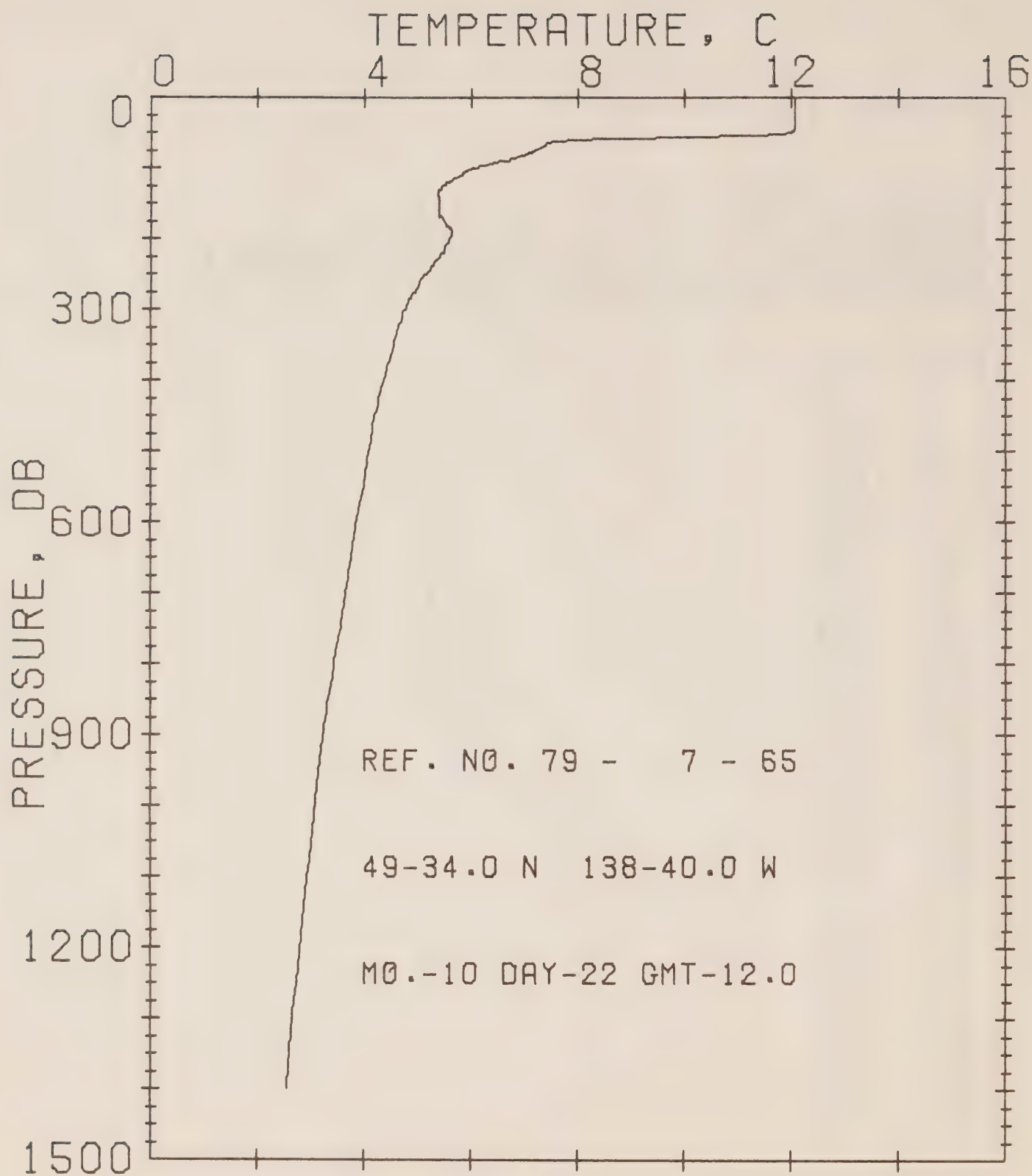
POSITION 49-34.0N, 138-40.0W GMT 12.0 STATION 10

RESULTS OF STP CAST 144 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.07
10	12.08
20	12.08
30	12.08
40	12.07
50	12.02
60	7.94
70	7.37
80	7.06
90	6.63
100	6.05
110	5.85
120	5.59
130	5.39
140	5.37
150	5.40
160	5.40
170	5.44
180	5.51
190	5.63
200	5.62
210	5.53
220	5.48
230	5.35
240	5.24
250	5.18
260	5.04
270	5.00
280	4.90
290	4.82
300	4.77



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 65

DATE 22/10/79

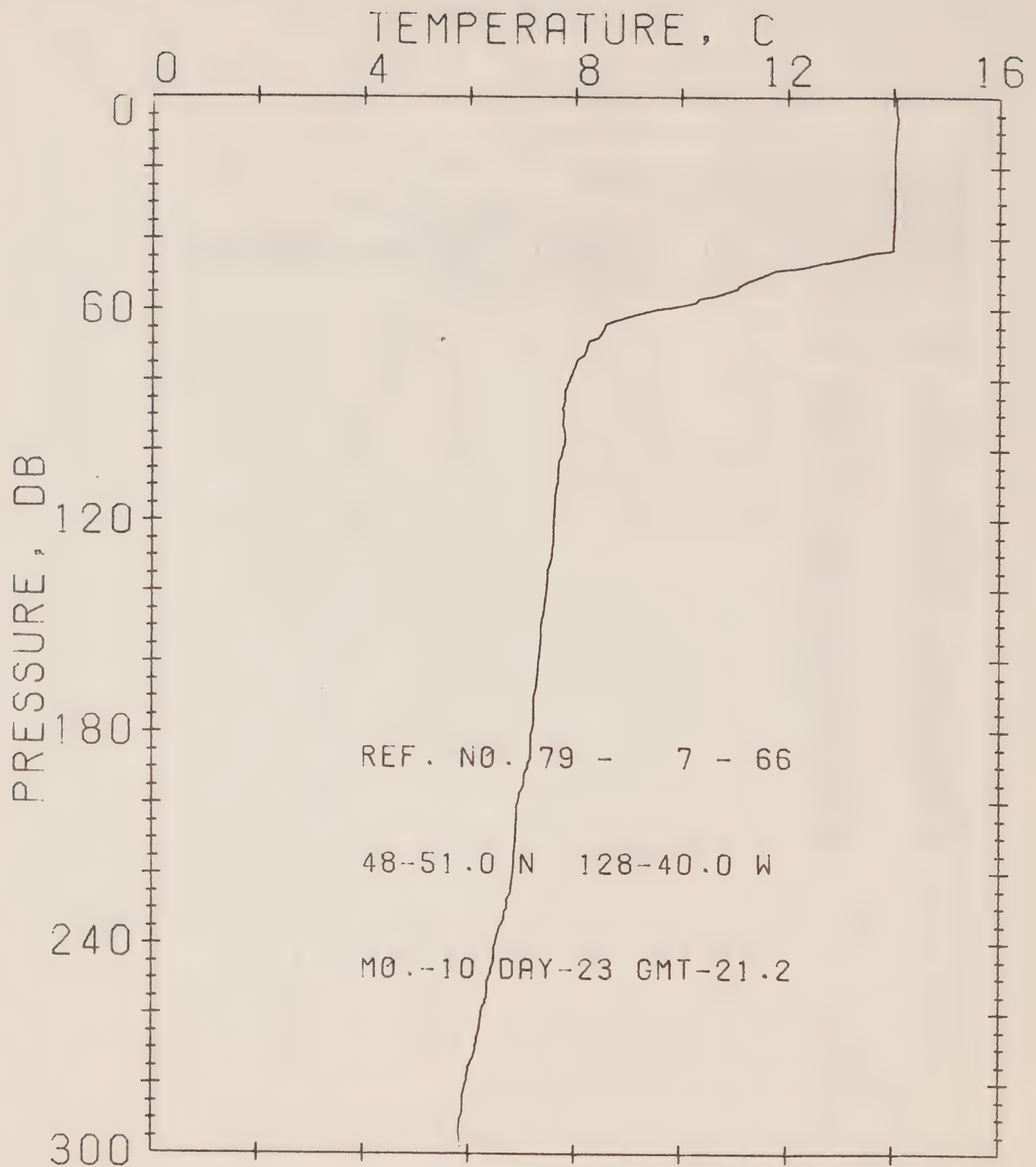
POSITION 49-34.0N, 138-40.0W GMT 12.0 STATION 10

RESULTS OF STP CAST 217 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.07
10	12.08
20	12.08
30	12.08
50	12.02
75	7.19
100	6.05
125	5.46
150	5.40
175	5.48
200	5.62
225	5.42
250	5.18
300	4.77
400	4.38
500	4.09
600	3.86
800	3.44
1000	3.08
1200	2.81



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 66

DATE 23/10/79

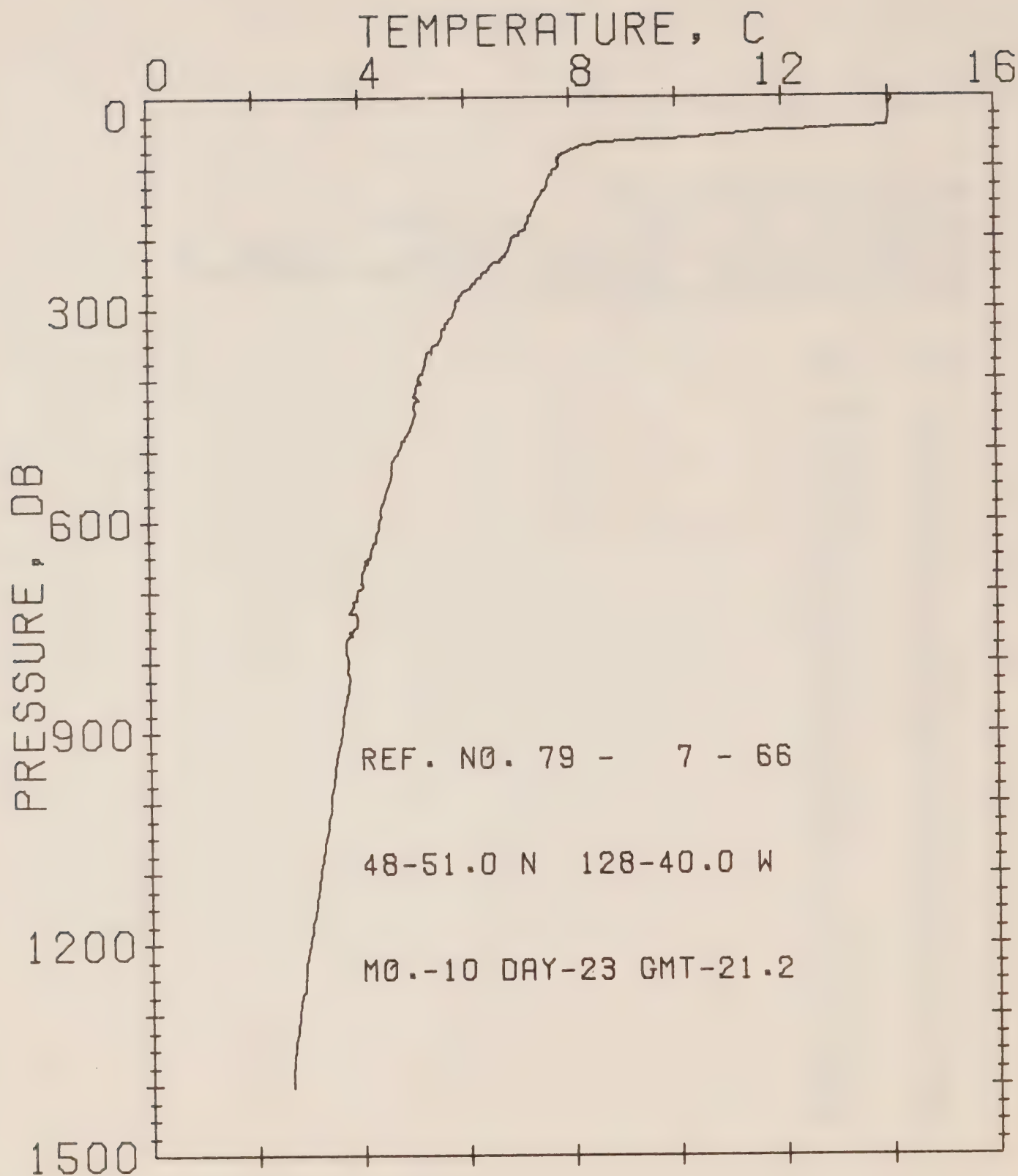
POSITION 48-51.0N, 128-40.0W GMT 21.2 STATION 5

RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.05
10	14.06
20	14.04
30	14.02
40	14.00
50	11.61
60	9.52
70	8.25
80	7.90
90	7.78
100	7.77
110	7.68
120	7.61
130	7.56
140	7.46
150	7.36
160	7.32
170	7.22
180	7.20
190	7.11
200	6.92
210	6.87
220	6.84
230	6.72
240	6.51
250	6.37
260	6.25
270	6.14
280	5.96
290	5.85
300	5.84



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 66

DATE 23/10/79

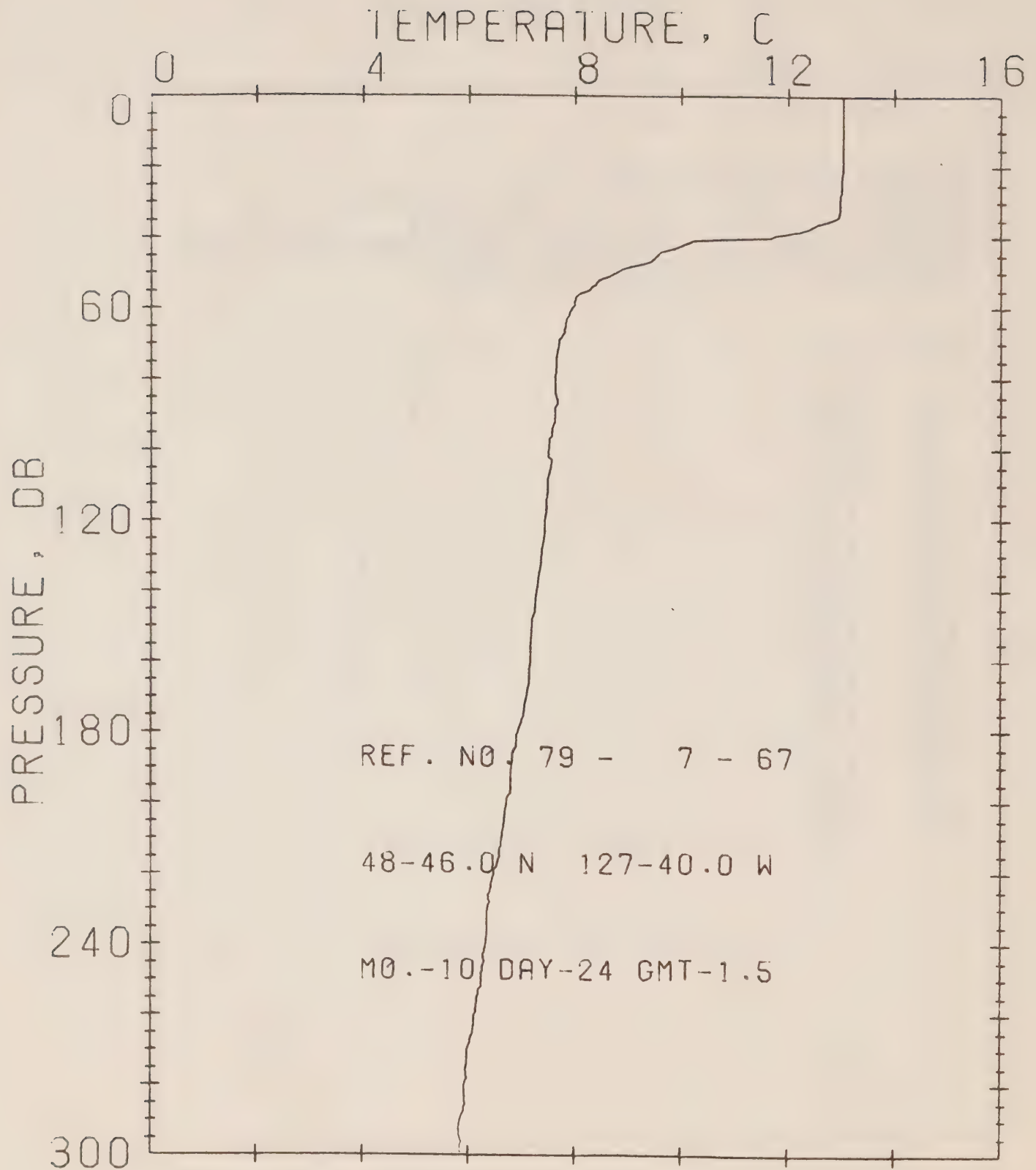
POSITION 48-51.0N, 128-40.0W GMT 21.2 STATION 5

RESULTS OF STP CAST 306 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	14.05
10	14.06
20	14.04
30	14.02
50	11.61
75	8.04
100	7.77
125	7.59
150	7.36
175	7.23
200	6.92
225	6.79
250	6.37
300	5.84
400	5.10
500	4.75
600	4.37
800	3.75
1000	3.41
1200	2.99



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 67

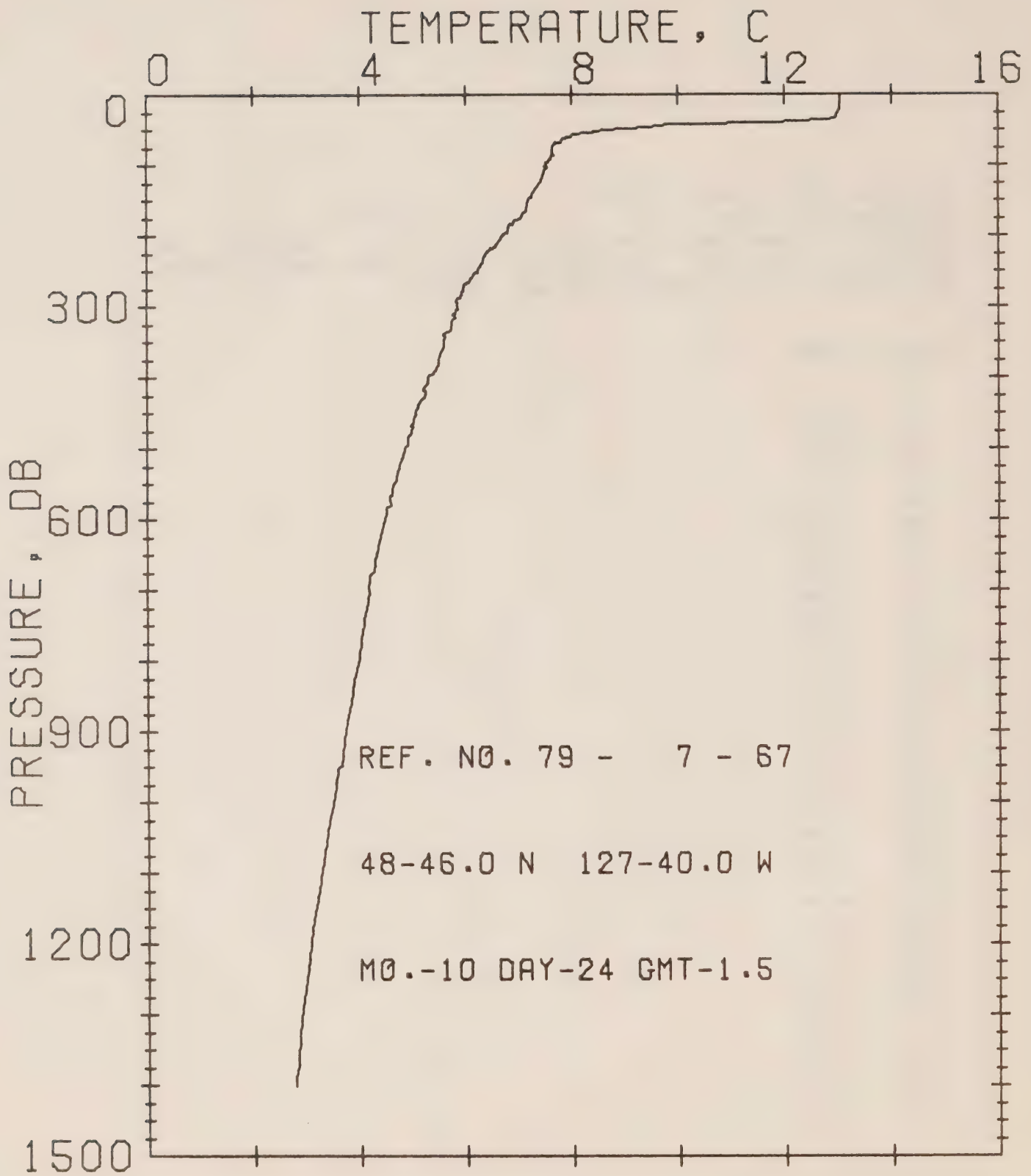
DATE 24/10/79

POSITION 48-46.0N, 127-40.0W GMT 1.5 STATION 4

RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.05
10	13.04
20	13.04
30	12.99
40	11.67
50	8.77
60	7.94
70	7.70
80	7.63
90	7.64
100	7.50
110	7.49
120	7.44
130	7.38
140	7.29
150	7.20
160	7.18
170	7.09
180	6.94
190	6.82
200	6.71
210	6.63
220	6.48
230	6.37
240	6.32
250	6.25
260	6.10
270	5.98
280	5.93
290	5.85
300	5.84



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 67

DATE 24/10/79

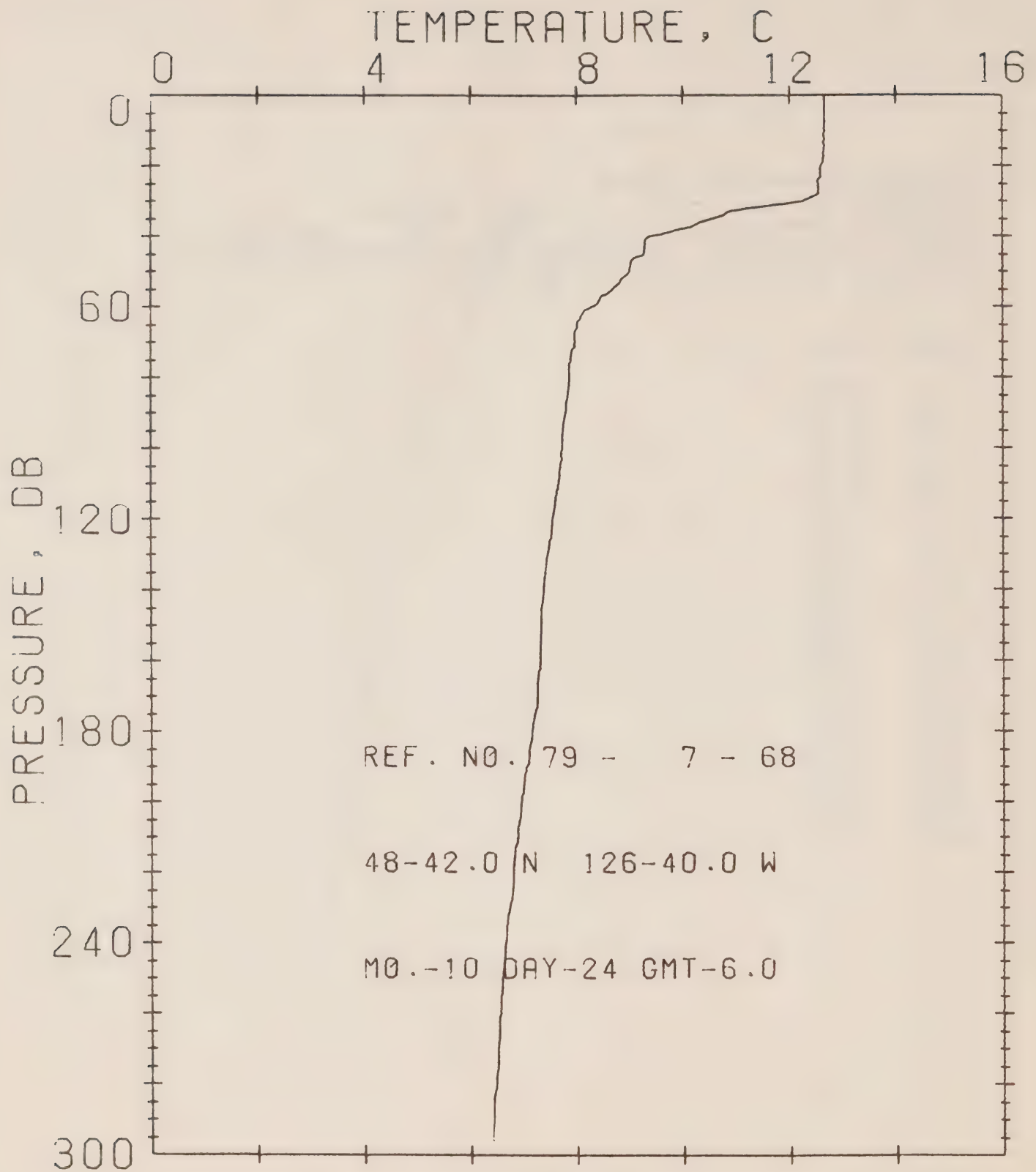
POSITION 48-46.0N, 127-40.0W GMT 1.5 STATION 4

RESULTS OF STP CAST 291 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.05
10	13.04
20	13.04
30	12.99
50	8.77
75	7.66
100	7.50
125	7.42
150	7.20
175	7.03
200	6.71
225	6.39
250	6.25
300	5.84
400	5.31
500	4.85
600	4.48
800	3.98
1000	3.50
1200	3.07

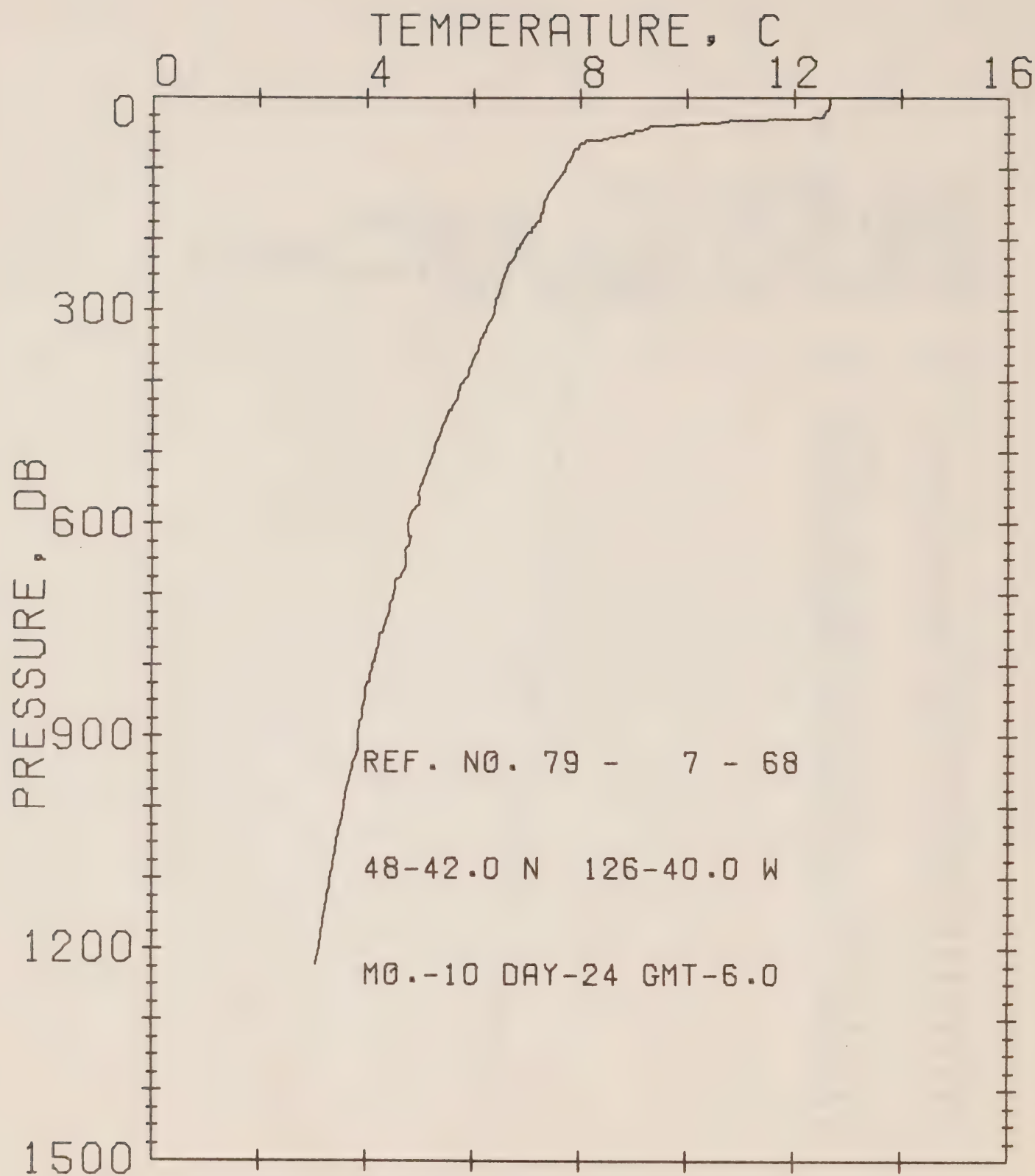


OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 68 DATE 24/10/79
POSITION 48-42.0N, 126-40.0W GMT 6.0 STATION 3
RESULTS OF STP CAST 143 POINTS TAKEN FROM ANALOG TRACE
GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.68
10	12.68
20	12.59
30	12.26
40	9.36
50	9.00
60	8.30
70	7.97
80	7.87
90	7.80
100	7.74
110	7.66
120	7.55
130	7.46
140	7.37
150	7.32
160	7.31
170	7.25
180	7.17
190	7.05
200	6.95
210	6.88
220	6.80
230	6.75
240	6.66
250	6.59
260	6.55
270	6.51
280	6.48
290	6.42
300	6.40



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 68

DATE 24/10/79

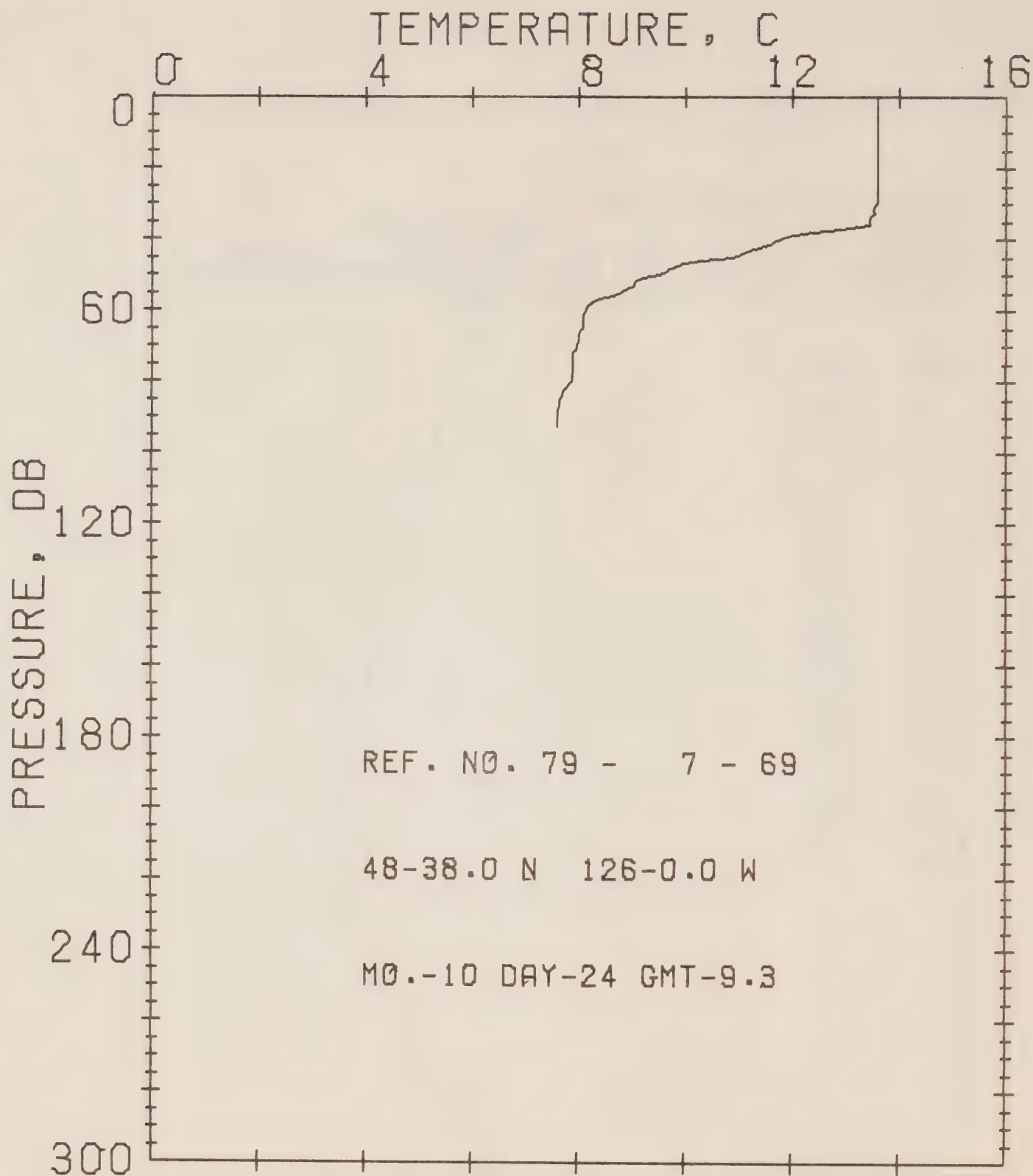
POSITION 48-42.0N, 126-40.0W GMT 6.0 STATION 3

RESULTS OF STP CAST 307 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	12.68
10	12.68
20	12.59
30	12.26
50	9.00
75	7.89
100	7.74
125	7.53
150	7.32
175	7.21
200	6.95
225	6.78
250	6.59
300	6.40
400	5.82
500	5.27
600	4.79
800	4.12
1000	3.59
1200	3.14



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 7- 69

DATE 24/10/79

POSITION 48-38.0N, 126- .0W GMT 9.3 STATION 2

RESULTS OF STP CAST 55 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS TEMP

0	13.60
10	13.61
20	13.60
30	13.59
40	11.79
50	9.55
60	8.13
70	7.98
80	7.86
90	7.58

Surface Salinity and Temperature Observations

(P-79-7)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 7

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT			
				0/00	C	WEST
79	9	7	1740	31.738		123-30
79	9	7	1850	31.347		124- 0
79	9	7	2028	31.418		124-30
79	9	7	2200	29.689		125- 0
79	9	7	2335	32.265	13.3	125-33
79	9	8	115	32.071	13.9	126- 0
79	9	8	330	32.032	15.7	126-40
79	9	8	700	32.116		127-40
79	9	8	906	31.998		128-40
79	9	8	1543	32.406*		130-40
79	9	8	2200	32.351*	15.8	132-40
79	9	9	500	32.307	15.2	134-40
79	9	9	1125	32.450	15.0	136-40
79	9	9	1815	32.456*	14.9	138-40
79	9	10	205	32.487	14.7	140-40
79	9	10	1000	32.476*	14.6	142-40
79	9	11	0	32.449	14.7	145- 0
79	9	12	0		14.6	ON STATION
79	9	13	0	32.514*	14.3	ON STATION
79	9	14	0	32.554	13.9	ON STATION
79	9	15	0	32.523	14.0	ON STATION
79	9	16	0	32.534	13.9	ON STATION
79	9	17	0	32.567*	14.0	ON STATION
79	9	18	0	32.556*	13.6	ON STATION
79	9	19	0	32.540	13.7	ON STATION
79	9	20	0	32.536	14.0	ON STATION
79	9	21	0	32.525	13.6	ON STATION
79	9	22	0	32.589	13.7	ON STATION
79	9	23	0	32.554	13.6	ON STATION
79	9	24	0	32.550	13.6	ON STATION
79	9	25	0	32.541	13.6	ON STATION
79	9	26	0	32.561	13.6	ON STATION
79	9	27	0	32.550*	13.5	ON STATION
79	9	28	0	32.638*	13.4	ON STATION
79	9	29	0	32.624*	13.3	ON STATION
79	9	30	0	32.623*	13.1	ON STATION
79	10	1	0	32.609*	12.5	ON STATION
79	10	2	0	32.571	12.3	ON STATION
79	10	3	0	32.525*	12.3	ON STATION
79	10	4	0	32.548	12.3	ON STATION
79	10	5	0	32.576	11.8	ON STATION
79	10	6	0	32.622*	12.0	ON STATION
79	10	7	0	32.561	11.8	ON STATION
79	10	8	0	32.524*	12.2	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 7

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	10	9	0	32.529*	12.3	ON STATION
79	10	10	0	32.546*	12.2	ON STATION
79	10	11	0	32.527*	12.1	ON STATION
79	10	12	0	32.567*	12.1	ON STATION
79	10	13	0	32.592*	11.9	ON STATION
79	10	14	0	32.593*	12.0	ON STATION
79	10	15	0	32.582*	11.8	ON STATION
79	10	16	0	32.562*	12.0	ON STATION
79	10	17	0	32.571	11.7	ON STATION
79	10	18	0	32.540	11.7	ON STATION
79	10	19	0	32.554	11.3	ON STATION
79	10	20	0	32.591*	11.2	ON STATION
79	10	21	0	32.554*	10.9	145- 0
79	10	22	500	32.421	12.0	140-40
79	10	22	1200	32.428	12.1	138-40
79	10	22	1833	32.468*		136-40
79	10	23	26	32.208		134-40
79	10	23	725	32.420*		132-40
79	10	23	1400	32.464*		130-40
79	10	23	2100	32.400*	14.0	128-40
79	10	24	125	32.116*	13.0	127-40
79	10	24	600	32.252*	12.7	126-40
79	10	24	930	32.414	13.8	126- 0
79	10	24	1120	32.354*		125-33
79	10	24	1306	32.102*		125- 0
79	10	24	1446	31.532*		124-30
79	10	24	1640	31.679		124- 0
79	10	24	1840	31.793*		123-30

* DENOTES SALINITY SAMPLE TAKEN FROM A
BUCKET. ALL OTHER SAMPLES TAKEN FROM
THE SEAWATER LOOP

1061

